



Arlington Conservation Commission

Date: Thursday, January 20, 2022

Time: 7:30 PM

Location: Conducted by Remote Participation

Pursuant to State Legislation suspending certain provisions of the Open Meeting Law, G. L. c. 30A, § 20 relating to the COVID-19 emergency, the January 20, 2022, public meeting of the Arlington Conservation Commission shall be physically closed to the public to avoid group congregation. The meeting shall instead be held virtually using Zoom. Please register in advance for this meeting. Reference materials, instructions, and access information for this specific meeting will be available 48 hours prior to the meeting on the Commission's agenda and minutes page.

https://town-arlington-ma-us.zoom.us/meeting/register/tZEqcuyvqjgpHdd98ZwruZj_z3SR6m7Yu6vi

Agenda

1. Administrative

a. 7:30 p.m.

1. Site visit: 88 Coolidge

The Conservation Agent made a site visit to 88 Coolidge Road on 01/13/22 to inspect erosion controls.

2. Water Bodies Working Group Updates

Items to be discussed include the RFQ for management of Spy Pond, the working group's yearend report, and submission of a warrant article to town meeting for an appropriation.

3. Support for Spy Pond Planting Bed Maintenance

Friends of Spy Pond Park requests \$4800 - \$5200 range to support invasive removal at the edge of Spy Pond, to be conducted by Parterre in 2022. The proposal includes (1) Parterre Field Technician to collaborate with Friends volunteers to prioritize restoration efforts, completing cut & dab herbicide application to shrubs/vines and treatment of knotweed.

4. Local Wetland Regulation Changes

Discussion of proposed changes to Arlington's local wetlands regulations, including the vegetation replacement section.

2. Hearings

Hearing Documents

8:30 p.m.

1. Request for Certificate of Compliance: 54 Dothan Street (Continued)

DEP #91-196

Documents: Buffer Zone Re-Vegetation Plan for 54 Dothan Street (2008), Environmental Monitoring: 54 Dothan Street prepared by Mary Trudeau, 54 Dothan Street Partial Certificate of Compliance, WPA Form 8A: Request for Certificate of Compliance (2020)

Pursuant to a partial Certificate of Compliance (CoC) issued in 2019, the Applicant seeks a full CoC. The original Order of Conditions has been satisfied, including the three-year monitoring report required for a full CoC, as confirmed by the environmental monitor for the project, Mary Trudeau. The Conservation Agent recommends approval of this request.

The project is in the buffer zone of a Bordering Vegetated Wetland that is located entirely within the boundaries of the Town of Arlington's McClennan Park.

2. Notice of Intent: Hurd Field

DEP #XX-XXX

Documents: Hurd Field Notice of Intent application package prepared by Stantec

This public hearing will consider a Notice of Intent for renovations to Hurd Field located at 0 Massachusetts Avenue and 0 Lowell Street (off Drake Road). Work is proposed to be conducted within the Riverfront Area to Mill Brook, Bordering Land Subject to Flooding (FEMA Zones AE and X, Floodway), the 100-foot Buffer Zone to Bordering Vegetated Wetlands and the Adjacent Upland Resource Areas. Renovation includes regrading and reorienting the athletic fields, upgrading field lighting, and constructing a pedestrian loop path, irrigation system, and other new amenities.

3. Notice of Intent: Colonial Village Drive

DEP #091-0336

Documents: Colonial Village Drive Notice of Intent application package, stormwater report, and civil plan set prepared by McKenzie Engineering Group

This public hearing will consider a Notice of Intent to reconstruct all on-site parking and access driveways and curbing, as well as installation of stormwater management systems and conduct site grading at Colonial Village Drive. All work is proposed to be conducted within the 100-foot Buffer Zone to the Inland Bank of a perennial stream that flows from the Arlington Reservoir, the 200-foot Riverfront Area associated with Mill Brook, and Bordering Land Subject to Flooding (FEMA Zone AE).

Please note: Not all items listed may in fact be discussed and other items not listed may be brought up for discussion to the extent permitted by law. This agenda includes those matters which can be reasonably anticipated to be discussed at the meeting.



Town of Arlington, Massachusetts

Administrative

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ATTACHMENTS:

Type	File Name	Description
▢ Reference Material	DRAFT_2021_Annual_Report.docx	Draft 2021 Annual Report
▢ Reference Material	Spy_Pond_RFQ_2022-01-18.doc	Spy Pond RFQ 2022-01-08
▢ Reference Material	2019_-_ARTICLE_xx_APPROPRIATION.docx	2019 Article xx Appropriation



Town of Arlington, Massachusetts

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Type	File Name	Description
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▢	Reference Material	Hurd_Field_NOI_Package.pdf	Hurd Field NOI Package
▢	Reference Material	Hurd_Field_NOI_Plan_Set.pdf	Hurd Field NOI Plan Set
▢	Reference Material	Hurd_Field_Site_Rendering_Preferred_Concept.pdf	Hurd Field Site Rendering Preferred Concept
▢	Reference Material	Colonial_Village_Drive_-_221-155_Civil_Plan_Set.pdf	Colonial Village Drive - 221-155 Civil Plan Set
▢	Reference Material	Colonial_Village_Drive_-_221-155_NOI_Filing_Documents.pdf	Colonial Village Drive - 221-155 NOI Filing Documents
▢	Reference Material	Colonial_Village_Drive_-_221-155_NOI.pdf	Colonial Village Drive - 221-155 NOI
▢	Reference Material	Colonial_Village_Drive_-_221-155_Stormwater_Report.pdf	Colonial Village Drive - 221-155 Stormwater Report



**Town of Arlington
Recreation Department**
Notice of Intent
Hurd Field Renovation Project
Arlington, Massachusetts 02474

January 6, 2022

Prepared for:

Town of Arlington Recreation
Department
422 Summer Street
Arlington, MA 02474

Prepared by:

Stantec Consulting Services Inc.



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ARLINGTON RECREATION DEPARTMENT

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Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
and Article 8 Town of Arlington Wetlands Protection Bylaw

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Arlington

City/Town

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

0 Massachusetts Ave & 0 Lowell Street

a. Street Address

Arlington

b. City/Town

02474

c. Zip Code

Latitude and Longitude:

42d 25' 34" N

d. Latitude

71d 11'15 69" W

e. Longitude

Map 61

f. Assessors Map/Plat Number

Lots 1-3 and 1-4

g. Parcel /Lot Number

2. Applicant:

Joseph

a. First Name

Connelly

b. Last Name

Arlington Recreation Department

c. Organization

422 Summer Street

d. Street Address

Arlington

e. City/Town

MA

f. State

02474

g. Zip Code

781.316.3880

h. Phone Number

i. Fax Number

jconnelly@town.arlington.ma.us

j. Email Address

3. Property owner (required if different from applicant): ☐ Check if more than one owner

Same

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Josh

a. First Name

Atkinson

b. Last Name

Stantec Planning and Landscape Architecture

c. Company

226 Causeway Street 6th floor

d. Street Address

Boston

e. City/Town

MA

f. State

02114

g. Zip Code

617.657.6003

h. Phone Number

i. Fax Number

josh.atkinson@stantec.com

j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

Exempt -Municipal Applicant

a. Total Fee Paid

b. State Fee Paid

c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

Hurd Field Renovation Project including new ball fields, walking/biking path and associated amenities.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input checked="" type="checkbox"/> Other Recreation | |

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☒ No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Middlesex County South

a. County

5255 (for both Map 61-1-3 & Map 61-1-4)

c. Book

b. Certificate # (if registered land)

102 (for both Map 61-1-3 & Map 61-1-4)

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

1. ☐ Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
2. ☒ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	42,022 (temporary) 1. square feet 0 3. cubic feet of flood storage lost	2. square feet +27 cf 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input checked="" type="checkbox"/> Riverfront Area	Mill Brook (Inland) 1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

- ☐ 25 ft. - Designated Densely Developed Areas only
- ☐ 100 ft. - New agricultural projects only
- ☒ 200 ft. - All other projects

Parcel 61-1-4 (0 Lowell St.)
Total RA=140,206 SF
Proposed Alteration=2,933 (temp)
(582 perm. loop path)
SF within 100 ft=2,933
SF between 100 ft and 200 ft=0 sf

3. Total area of Riverfront Area on the site of the proposed project:

220,484 RA for Map 61-1-3
square feet

4. Proposed alteration of the Riverfront Area:

126,175	62,434 (2,315 perm)	63,741
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☒ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☒ Yes ☐ No

3. ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment
	Size of Proposed Alteration	Proposed Replacement (if any)
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement		
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.		
a. square feet of BVW	b. square feet of Salt Marsh	

5. ☐ Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. ☐ Yes ☒ No

If yes, include proof of mailing or hand delivery of NOI to:

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

August 2021 MassGIS datalayer

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

2. ☐ Assessor's Map or right-of-way plan of site

2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

Type text here

- (c) ☐ MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) ☐ Vegetation cover type map of site

- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries

- (f) ☐ OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing.

a. NHESP Tracking #

b. Date submitted to NHESP

3. ☐ Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. ☐ Not applicable – project is in inland resource area only b. ☐ Yes ☐ No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

- c. ☐ Is this an aquaculture project?

- d. ☐ Yes ☐ No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C. Other Applicable Standards and Requirements (cont'd)

Online Users:

Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
a. ☐ Yes ☒ No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
a. ☐ Yes ☒ No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
a. ☒ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
2. ☒ A portion of the site constitutes redevelopment
3. ☐ Proprietary BMPs are included in the Stormwater Management System.
b. ☐ No. Check why the project is exempt:
1. ☐ Single-family house
2. ☐ Emergency road repair
3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. ☒ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. ☒ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

and Article 8 Town of Arlington Wetlands Protection Bylaw

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Arlington

City/Town

D. Additional Information (cont'd)

3. ☒ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.

Title Sheet, Existing Conditions Plan, Materials Plan/Proposed Work, Grading and Sedimentation Control, Seed and Sod Plan/Proposed Final Conditions, Erosion and Sedimentation Controls/BMP Details, Details

a. Plan Title

Stantec

Josh Atkinson, RLA

b. Prepared By

January 6, 2022

c. Signed and Stamped by

varies

d. Final Revision Date

Figure 1: Site Locus; Figure 2 :Aerial Photograph; Figure 3 :FEMA; Figure 4 :MassGIS Natural Heritage

e. Scale

January 4, 2022

f. Additional Plan or Document Title

g. Date

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☒ Attach Stormwater Report, if needed.

E. Fees

1. ☒ Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

Fee exempt

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
and Article 8 Town of Arlington Wetlands Protection Bylaw

MassDEP File Number

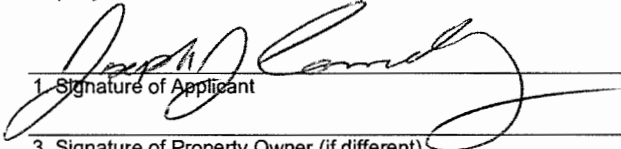
Document Transaction Number
Arlington

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant

3. Signature of Property Owner (if different)
5. Signature of Representative (if any)

2. Date
1-6-2022
4. Date
6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

Legal Notice Charge Authorization

DATE: January 5, 2022

TO: legals@wickedlocal.com

I hereby authorize Community Newspapers to bill me directly for the legal notice to be published in the Arlington Advocate newspaper on January 13, 2022 for a public hearing with the Arlington Conservation Commission to review a project at the following location: 0 Massachusetts Avenue (Assessor's Property Map 61, Lot 1-3) and 0 Lowell Street (Map 61, Lot 1-4) (a.k.a. Hurd Field).

Thank you.

Signed: 

Send bill to: Joseph Connelly

Arlington Recreation Department

422 Summer St.

Arlington, MA 02474

(781) 316-3880

1.0 INTRODUCTION

On behalf of the Arlington Recreation Department, Stantec Consulting Services Inc. (Stantec) is submitting this Notice of Intent (NOI) and supporting information to the Arlington Conservation Commission (Commission), pursuant to the Massachusetts Wetlands Protection Act and regulations (MA WPA) (MGL Chapter 131 §40 and 310 CMR 10.00, respectively) and the Arlington Wetlands Protection Bylaw (Article 8 and Regulations dated March 1, 2018) for renovations to Hurd Field (Project) located at 0 Massachusetts Avenue and 0 Lowell Street. An NOI is required since the Project will involve work within Riverfront Area (RFA), Bordering Land Subject to Flooding, the 100-foot Buffer Zone to Bordering Vegetated Wetlands and the 25', 50' and 100' Adjacent Upland Resource Areas. The Project consists of renovations and upgrades to the existing fields and construction of new amenities. The site currently contains two baseball/softball fields and two soccer fields. The site renovation will include one baseball/softball field, two youth soccer fields with a half size soccer practice field, a pedestrian loop path and amenities including picnic tables, benches, a bottle fill station, port-a-potty enclosure, a storage shed, an irrigation system, an upgraded lighting system, an irrigation and lighting control shed, a batting cage, ADA accessible spectator seating and an entry plaza with benches. The natural grass field will be regraded to provide improved drainage and improved athlete safety.

1.1 BACKGROUND AND PURPOSE

The Project is being undertaken by the Arlington Recreation Department utilizing Community Preservation Act (CPA) funding. According to an April 2021 report by the Arlington CPA Committee, the long-delayed restoration of Hurd Field will address the many safety issues that currently exist, meet all current ADA guidelines and best practices, and provide a safe connection from the Minuteman Bikeway through Hurd Field to the Arlington Reservoir. The current field and site conditions include uneven terrain, compaction in the grass areas, poor drainage, a dangerous and outdated electrical system, several accessibility issues as pointed out in the Institute for Human Centered Design's (IHCD) Accessibility Audit, and an unsafe passage to the Reservoir.

A United States Geological Survey (USGS) Site Locus (Figure 1) and Aerial Site Photograph (Figure 2) are provided to show the Project location and surrounding physical features. Photos of existing conditions of Hurd Field and the associated wetland and upland resource areas can be found in Appendix D.

2.0 EXISTING CONDITIONS

The renovation of Hurd Field will take place on two parcels of land. The 6.14- acre parcel identified by the Arlington Assessor's as Map 61-1-3 at 0 Massachusetts Avenue contains two baseball/softball fields, two soccer fields, an informal pedestrian dirt path and a parking lot providing access from Drake Road; this parcel is herein referred to as "ballfield". The 21.24 acre abutting parcel to the north, identified as Assessor's Map 61-1-4 at 0 Lowell Street, is located along the perimeter of the Arlington Reservoir within Arlington and

contains a parking area, dams and access paths to the dams; this parcel is herein referred to as “north parcel”. Both parcels are owned by the Arlington Recreation Department. See Project Plans provided in Appendix E for existing site conditions.

2.1 JURISDICTIONAL RESOURCE AREAS

The resource areas immediately adjacent to the limit of the field renovation work were delineated by a Stantec Professional Wetland Scientist (PWS) on September 14, 2021. The following sections describe wetland resource areas identified on the ball field site and those immediately off site where buffers or Riverfront Area may extend onto the Project Site. Because the ballfield site contains resources proximate to the actual field renovation work, the portion of the reservoir parcel north of Mill Brook was not delineated. The resource areas delineated on the ballfield parcel represents the most conservative since the reservoir resource area are located further from the limit of work. The resource areas and associated regulated buffer zones on the ballfield parcel are shown on the Plans provided in Appendix E.

2.1.1 Riverfront Area

Mill Brook is located along the property line between the two parcels and cuts across the northern portion of the ballfield parcel. The following discusses the Riverfront Area (RFA) on the north and east sides of the ballfield parcel.

West/North Riverfront Area: The south or project facing side of Mill Brook consists of a naturalized segment where Mean Annual High Water/Bank are coincidental and represented by Flags A1 to A30. The 200- foot RFA is measured from Flags A1 to A30.

East Riverfront Area: Mill Brook is conveyed by an open concrete-lined channel along the east side of the Project Site and located on abutting property. No wetland delineation flags were placed on the private abutting property. The concrete-lined channel is contained by low concrete retaining walls on both sides. The vertical retaining wall on the west or project facing side was located by the field survey and represents the MAHW/Bank of Mill Brook (Appendix D Photo Sheets). The 200- foot RFA is measured from the concrete wall.

Ballfield Parcel at 0 Massachusetts Avenue: The total RFA on site is 220,484 square feet (sf) of which approximately 40,506 sf, or 18.4% of the RFA is degraded or lacks topsoil and consists of portions of the parking lot, ball pit, the existing foot path and miscellaneous areas lacking topsoil.

North Parcel at 0 Lowell Street: The total RFA on site (north and south of Mill Brook) is 140,206 square feet (sf) of which approximately 17,254 sf, or 12.3% of the RFA is degraded or lacks topsoil and consists of the walking path and infrastructure associated with the reservoir.

2.1.2 Bordering Vegetated Wetlands

A small pocket of Bordering Vegetated Wetlands (BVW) is located along a short section of Mill Brook represented by Flags B1 to B4. The BVW was dominated by silky dogwood (*Cornus amomum*) in the shrub layer and jewelweed (*Impatiens capensis*) in the herbaceous layer.

2.1.3 Bordering Land Subject to Flooding

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Numbers 25017CO412E and 250017CO416E June 4, 2010, the Zone AE 100-year flood zone elevation 154 feet North American Vertical Datum of 1988 (NAVD88) is mapped within the Project Site. There is also a Regulatory Floodway mapped by FEMA (Section A-A Flood Insurance Study Table 12) on the Project site that has a 181- foot width. FEMA documentation, including the FIRM and Regulatory Floodway information, is provided in Figure 3.

2.1.4 Adjacent Upland Resource Area

Per Section 25 of the Arlington Wetland Regulations, the Adjacent Upland Resource Area (AU) exists on the Project site and extends 100 feet from the Bank of Mill Brook Series A and the concrete wall/bank and the BVW series B. The AU is coincidental with the 100- foot buffer zone under the MA WPA for Bank and BVW and the Inner Riparian Zone of the Riverfront Area.

The Adjacent Upland Resource Area is the area adjacent to a resource area specified in Section 2, A(1) through (4) and is the land within 100 feet (measured horizontally) of any of the aforesaid resource areas. The AU areas are labeled on the supporting NOI Project Plans in Appendix E.

2.2 RARE SPECIES

According to the MassGIS online database Natural Heritage and Endangered Species datalayer (August 2021), there are no Estimated Habitats of Endangered Species, Priority Habitats of Rare Wildlife, certified or potential vernal pools mapped within the Project site. See Figure 4.

3.0 PROPOSED ACTIVITIES

The entirety of the new baseball and soccer field layout will be within the footprint of the existing fields and located on the ballfield parcel. The work proposed on the north parcel will include a portion of the pedestrian loop path providing a connection between the fields and the reservoir as it does today. Site amenities will be located on both parcels (see Site Rendering Plan Figure 5). The project will include the following ground-disturbing activities.

The following activities are proposed within the ballfield parcel.

- Demolition/Removal of Existing Structure/Features including baseball backstops, infield mix, and the storage shed;
- Construction of new baseball/softball field and two new Soccer Fields; and,

- Minor grading to promote sheet flow off fields.

Site Improvements:

- Benches;
- Bicycle rack;
- Picnic tables;
- Overlook with seating;
- Spectator seating area;
- Team benches;
- Light poles; and,
- new ADA compliant pedestrian loop path (relocation of existing unformalized).

The following activities are proposed within the north parcel:

- A portion of storage shed;
- irrigation/light control shed; and
- Pedestrian loop path and associated grading.

3.1 STORMWATER MANAGEMENT

The new natural turf fields will be graded to sheet flow storm water runoff to the edges of the fields. Stormwater from larger storm events that does not immediately infiltrate will runoff to the swales and ultimately accumulate in the low-lying area to the north of the fields where it will slowly infiltrate or evaporate.

The new pedestrian loop path will introduce a nominal amount of impervious surface; the surfaces will be used by pedestrians only and will not come into contact with potential pollutants. The porous asphalt paved pedestrian loop path will be graded to allow sheetflow to drain to the adjacent stabilized grassed shoulders and to the low point/retention basin on the north side of the soccer fields. A Stormwater Management Checklist is provided in Appendix A.

4.0 RESOURCE AREA ALTERATIONS

4.1 RIVERFRONT AREA

Ballfield Parcel at 0 Massachusetts Avenue: There will be approximately 2,315 sf of new permanent RFA alteration associated with the introduction of the porous asphalt pedestrian loop path, portion of the storage shed, irrigation/lighting shed, picnic table areas, overlook seating area, team and spectator seating areas. The areas to be altered consists of grass or non-degraded surfaces.

North Parcel at 0 Lowell Street: There will be approximately 582 sf of new permanent RFA alteration associated with the introduction of the porous asphalt paved walking path and portion of the storage shed.

A summary of the existing and proposed alteration RFA alterations for both parcels is provided in Table 1 below.

Table 1. Existing and Proposed Degraded RFA Summary

	Existing Degraded RFA	Proposed Alteration Inner Riparian		Proposed Alteration Outer Riparian		Proposed New Degraded RFA
	Field Parcel 0 Massachusetts Avenue					
TOTAL RFA on Parcel =	40,506sf/18.4%	Temp	Perm	Temp	Perm	+2,315 sf
220,484 square feet (sf)		62,432 sf	7,399 sf	63,741 sf	9,819 sf	40,506 sf + 2,315 sf = 42,821 sf/19.4%
	North Parcel 0 Lowell Street					
TOTAL RFA on Parcel =	17,254sf/12.3%	Temp	Perm	Temp	Perm	+582 sf
140,206 square feet (sf)		2,933 sf	582 sf	0 sf	0 sf	17,254 sf + 582 sf = 17,86 sf/12.7%

4.2 BORDERING LAND SUBJECT TO FLOODING

In conjunction with the field renovation, a priority for the new field is to avoid standing water and regrade the site to direct runoff from south to north toward a low point/retention area along the northern property line. The northern portion of the two soccer fields will be located at or below elevation the 154 feet within BLSF. Existing grades within the flood zone will be lowered to allow runoff to sheetflow across the fields and toward the low point/retention area. No fill will be placed at or below elevation 154 feet and there will be no loss of flood storage capacity. The grades will be lowered by approximately 0.5 feet and result in a net increase in flood storage capacity on the parcel by creating additional volume below elevation 154 feet. A section of the pedestrian loop path will also be located within BLSF however, it is designed match existing grades or slightly lower in elevation. Therefore, the pedestrian loop path will not result in a loss of flood storage capacity. Overall, the Project will increase flood volume storage in the BLSF by 709 CY.

4.3 ADJACENT UPLAND RESOURCE AREA ACTIVITIES

In accordance with Section 25 of the Arlington Regulations the following activities are proposed within the Adjacent Upland Resource Areas.

25 D. 25-foot Adjacent Upland (no activities or work allowed)

Ballfield Parcel: Portion of pedestrian loop path north and east side of fields and grading

North Parcel: Portion of pedestrian loop path and grading

25E. 50- foot Adjacent Upland (no new structures allowed)

Ballfield Parcel: Portion of storage shed and irrigation/light control shed; light poles on north and east sides of fields

North Parcel: portion of irrigation/light control shed and light pole, portions of conduit trenching

25F. Impervious Surface

Ballfield Parcel: Portion of pedestrian loop path

North Parcel: Portion of pedestrian loop path

The 100 foot Adjacent Upland is coincidental with the 100 foot Inner Riparian Zone and the 100 foot Buffer Zone to Bank; see Section 4.1.

5.0 CONFORMANCE WITH REGULATORY PERFORMANCE STANDARDS MA WPA

5.1 RIVERFRONT AREA

The following addresses the General Performance Standards for Riverfront Area (RFA) per 310 CMR 10.58 (4)(a) through (4)(d):

Performance Standard	Conformance
(a) 10.58 (4)(a) Protection of other resources	Adjacent and on-site resource areas, including BVW and BLSF, will be protected during construction by the implementation of erosion prevention and sediment controls. There will be no direct permanent alterations to these other resources in the long term.
10.58 (4)(b) Protection of rare species	There are no NHESP rare species mapped within the project parcels.
10.58 (4)(c) Practicable and Substantially Equivalent Economic Alternatives	The project renovations to existing fields and represents the most practicable alternative in lieu of constructing fields on another site. The field size and layout best fits the site and meets the standard size for US youth soccer, little league baseball, and adult league softball
10.58 (4)(d) No significant adverse impact	
1.a At a minimum, a 100- foot wide area of undisturbed vegetation is provided.	1a. The existing fields are located within the inner riparian zone and the renovation project includes adjusting the layout and rebuilding existing fields essentially within the same footprint as the existing fields. The adjustment or relocation of the pedestrian loop path within the 100-foot inner riparian zone, however, it will not require the removal of vegetation and not result in a significant adverse impact.
1.b Stormwater is managed according to standards established by the Department in its Stormwater Policy.	1b. While not exempt from the Massachusetts Stormwater Standards, the Project will include additional

Performance Standard	Conformance
<p><i>1.c Proposed work does not impair the capacity of the riverfront area to provide important wildlife habitat functions.</i></p> <p><i>1.d Proposed work shall not impair groundwater or surface water quality by incorporating erosion and sedimentation controls and other measures to attenuate nonpoint source pollution.</i></p>	<p>impervious surface from the new pedestrian loop path. The runoff from the pedestrian loop path will not be a source of pollutants. Construction-term stormwater management will be employed using best management practices and temporary and permanent stabilization of the site. See Appendix A for the Stormwater Management Checklist.</p> <p>1c There will be no less of a vegetation corridor on either side of Mill Brook when the project is complete and animals that currently use the field for passage or to seek food resources will continue to do so.</p> <p>1d Construction-term erosion prevention and sediment controls will be implemented to minimize the potential for surface runoff or non-point source pollution from entering the adjacent resource areas. The contractor will be responsible for preparing the Stormwater Pollution Prevention Plan per the EPA National Pollutant Discharge Elimination System Construction General Permit.</p>

5.1.1 Riverfront Area Alternatives Analysis

The renovation of the natural turf existing ball fields makes the most practical sense since the Recreation Department already owns and maintains the existing ball fields, so offsite alternatives were not considered.

The RFA on the project site is already used for recreation. The updated field layout is located within the footprint of the existing fields and does not intrude further into the RFA. The formalized pedestrian loop around the fields represents new amenities within the RFA. Amenities will include picnic table areas, storage shed, irrigation/lighting control shed, bicycle racks, overlook seating area, and team and spectator seating, and will be within the RFA. These amenities serve the public, help the Recreation Department meet the goal of renovating the fields, will be located within the grassed areas and will not require the removal of existing vegetation or trees.

5.2 BORDERING LAND SUBJECT TO FLOODING

The following addresses the General Performance Standards for BLSF per 310 CMR 10.57(4)(a):

Performance Standard (310 CMR 10.57(4)(a))	Response
--	----------

<p>1. <i>Compensatory storage shall be provided for all flood storage volume that will be lost as the result of a proposed project within Bordering Land Subject to Flooding, when in the judgment of the issuing authority said loss will cause an increase or will contribute incrementally to an increase in the horizontal extent and level of flood waters during peak flows. Compensatory storage shall mean a volume not previously used for flood storage and shall be incrementally equal to the theoretical volume of flood water at each elevation, up to and including the 100-year flood elevation, which would be displaced by the proposed project. Such compensatory volume shall have an unrestricted hydraulic connection to the same waterway or water body. Further, with respect to waterways, such compensatory volume shall be provided within the same reach of the river, stream or creek.</i></p>	<p>The project will include slightly lowering grades within the 100 year flood zone (AE) and will not result in the loss of flood storage volume, therefore compensatory flood storage is not required.</p>
<p>2. <i>Work within Bordering Land Subject to Flooding, including that work required to provide the above-specified compensatory storage, shall not restrict flows so as to cause an increase in flood stage or velocity.</i></p>	<p>Grading within the flood zone will provide a slight increase of flood storage capacity. The parcel will remain an open field and not restrict flows or flood stage or velocity.</p>
<p>3. <i>Work in those portions of bordering land subject to flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions. Except for work which would adversely affect vernal pool habitat, a project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold, or altering vernal pool habitat, may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.</i></p>	<p>The project site is used as a ballfield and will continue in use as a ballfield. The existing vegetation associated with the Riverfront Area, 100' Buffer Zone to Bank and BVW will remain undisturbed for this Project.</p>

6.0 CONFORMANCE WITH PERFORMANCE STANDARDS WETLANDS LOCAL REGULATIONS

The following sections discuss the project's conformance with the performance standards for BLSF and the Adjacent Upland Resource Area Standards per the Arlington Wetlands Protection Regulations.

6.1 CONFORMANCE WITH BORDERING LAND SUBJECT TO FLOODING STANDARDS

The following addresses conformance with the performance standards under Section 23 D of the Wetland Regulations for work within Bordering Land Subject to Flooding:

Standard: (1) Flood damage due to filling which causes lateral displacement of water that would otherwise be confined within said area;

Conformance with Standard: The project will not result in fill within BLSF; therefore, the project will meet this standard.

Standard: (2) Adverse effect on public and private water supply or groundwater supply, where said area is underlain by pervious material;

Conformance with Standard: There are no mapped surface water protection areas or individual wellhead protection areas mapped within the project site. Runoff will continue to recharge and infiltrate the groundwater. Therefore, the project will not adversely affect a water supply and conforms to this standard.

Standard: (3) An adverse effect on the capacity of said area to prevent pollution of the groundwater, where the area is underlain by pervious material which in turn is covered by a mat of organic peat and muck.

Conformance with Standard: The continued use of the site for recreation constitutes does not represent an increase in the potential pollutant source, as the use will be limited to pedestrians.

6.2 CONFORMANCE WITH ADJACENT UPLAND RESOURCE AREA PERFORMANCE STANDARDS

The following addresses conformance with the performance standards under Section 25 C through G of the Wetland Regulations for work within Adjacent Upland Resource Areas.

25 C. Alternatives to Work in Adjacent Upland Resource Area.

There are no reasonable off- site alternatives that meet the purpose and need to renovate the existing fields, so the focus of the alternatives analysis is to discuss on-site layout alternatives with respect to feasibility and practicability. According to the performance standards, the Commission may allow temporary, limited, or permanent disturbance, as appropriate, depending on the characteristics of the Adjacent Upland Resource Area. The following table presents the site characteristics as defined in Section 25 C:

Table 2: Upland Resource Area Characteristics

Characteristic	Response
(1) slope	There are no steep slopes on site; it is typical of a ballfield or park where the existing slopes are relatively flat; the path will be regraded to shed runoff.
(2) soil characteristics	Topsoil ranges from 2"-8" with dark brown, fine to medium sand, silt, and gravel. Sand and gravel down 5-10 feet below grade.
(3) drainage patterns	Existing drainage patterns sheet flow from south to north towards Mill Brook; after construction, this pattern will remain as sheet flow is directed to the low point/retention area on the north side of the parcel.
(4) extent and type of existing native vegetation	The vegetation consists of maintained, mowed grassed fields and areas lacking topsoil where the relocated formal pedestrian loop path will be located. The tree line is along Mill Brook and no tree clearing or trimming will be required to construct the path.

(5) extent and type of invasive vegetation	Japanese knotweed (<i>Polygonum cuspidatum</i>), Winged Euonymus (<i>Euonymus altus</i> ; aka Burning Bush), Glossy Buckthorn (<i>Frangula alnus</i>), Privet (<i>Ligustrum spp.</i>) are prevalent and extensive throughout the vegetated portions of the site, especially at the tree line.
(6) amount of impervious surface	With the exception of the existing parking lot, there is limited existing impervious surface; the introduction of impervious surface within the AU will be limited to site amenities, including the path loop, sheds and overlook.
(7) wildlife and wildlife habitat	The open field may provide a corridor for common wildlife between and along the Mill River and Reservoir. The vegetated/treed corridor habitat for common wildlife along the BVW and River within the AU will remain habitat and will not lose value due to the field renovation project.
(8) intensity and extent of use	The existing intensity and use of the parcels will remain the same, for use by the public for active and passive recreation.
(9) intensity and extent of adjacent and nearby uses	The fields are a compatible use to the nearby Minuteman Bike Path and provides the new formalized pedestrian loop path will provide an opportunity for the adjacent residents (condo) to enjoy the park.
(10) capacity to provide resiliency to climate change	The site is located within the 100 year flood zone and will continue to experience flooding; the field designs are not conducive to resiliency/climate change provisions.

Standard 25 D. No activities or work, other than passive passage and resource area enhancement, are permitted within the first 25 feet of the Adjacent Upland Resource Area. No vegetation may be disturbed, and leaf litter and natural debris shall remain in place. This No-Disturbance area shall at a minimum contain the same amount of area of undisturbed and natural vegetation from its pre-project state. A previously disturbed or previously developed 25-foot area shall be restored to a naturally vegetated state to the greatest extent practicable.

Conformance: The new pedestrian walkway loop will be located within the first 25 feet of the AUR area. The walkway loop will be located on the existing grass surface, and therefore no woody vegetation will be disturbed; there is no leaf litter or natural debris within the new path footprint.

Standard 25 E. No new structure(s) shall be placed in the first 50 feet of the Adjacent Upland Resource Area (measured horizontally from a resource area specified in Section 2, A(1) through (4)), unless approved by the Commission in evaluation of existing total impervious surface within the 50-foot area compared to the proposed impervious surface, and other considerations for the improvement of the resource area and climate change resiliency.

Conformance: The proposed structures within the 50 foot AUR area will consist of the storage shed and light poles. The 20 foot by 20 foot storage shed will introduce 400 square feet of impervious areas within the AUR. The light poles will introduce a nominal amount of impervious surface for the pole base. There will be trenching for conduits for the electrical system and water source upgrades for the irrigation system and bottle fill station.

Standard 25 F. Impervious Surface

- (1) The total area of impervious surface within the Adjacent Upland Resource Area shall not increase over existing total area unless mitigation is provided and there is no impact on Resource Area values.

Conformance: The construction of the shed and pedestrian walkway loop will result in an increase in impervious surface within the AUR area. The area is currently grass and portions lack topsoil where the value of the resource area is moderate to low. These features are necessary to support the field operation and amenities.

- (2) Impervious surfaces shall not intrude farther into the Adjacent Upland Resource Area than pre-project conditions unless the Commission in its sole discretion determines that the total area of impervious surface is significantly decreased or other mitigation is provided that serves to protect the resource area values. Impervious surface shall be kept as close as possible to the outer (upland) boundary of the Adjacent Upland Resource Area.

Conformance: the location of the new pedestrian path loop represents a shift in the existing path alignment to accommodate the layout of the soccer field. The introduction of impervious surface allows for a stable, ADA-compliant, walkway that connects an important regional bicycle and pedestrian path.

Standard 25 G. The following activities may not be conducted in any portion of the Adjacent Upland Resource Area: changing of oil, refueling, or damage to other vegetation not scheduled for removal.

Conformance: The operation of the ball fields will not introduce or require pollutant source generating uses such as changing of oil, refueling or damage to existing vegetation. Construction term good housekeeping measures will include provisions for the contractor to avoid the AU for vehicle storage, refueling or maintenance during construction.

6.2.1 Alternatives Analysis

The amenities to be located within the AU are associated with the operation of the fields including lights, a storage shed and irrigation/light control shed. The current pedestrian path will be shifted slightly to the west and upgraded to accommodate the western most soccer field. The location of these amenities is integral to the site layout where they make sense from a practical standpoint proximate to the parking entrance/exit. The new pedestrian path loop is along the outer field perimeter so as not interfere with active recreation. There are no other locations on the site for the path to allow for a connection to the adjacent Minuteman Bike path and the existing connection to the dam and the Arlington Reservoir.

6.3 REQUEST FOR VARIANCE UNDER LOCAL BYLAW

SECTION 28 of Arlington regulations contains standards for variances for work within the AUR area where conformance with the standards will not be achieved. See Appendix C for a Request for Variance.

6.4 ADJACENT UPLAND RESOURCE AREA MITIGATION

Accommodations for new field layout and path precludes woody plantings in the immediate area and, therefore, none are proposed at this time.

6.5 CLIMATE CHANGE RESILIENCE

In conformance with Section 31 of the Arlington Wetland Regulations, this section addresses climate change resilience.

Section 31 A. The impacts of climate change can adversely affect each Resource Area's ability to provide and promote the resource area values protected by the Bylaw. (See definitions of "adaptation" and "alter" and "impacts of climate change" in Section 4 above). Resource Areas are critical to building a community's resilience/adaptation to the impacts of climate change due to their ability to provide for flood control, storm damage prevention, and other Resource Area Values.

Conformance: The Project's purpose is to renovate and upgrade the existing fields and construct new amenities. The site currently contains two baseball/softball fields and two soccer fields. The site renovation will include one baseball/softball field, two youth soccer fields with a half size soccer practice field, a pedestrian loop path and amenities including picnic tables, benches, a bottle fill station, port-a-potty enclosure, a storage shed, an irrigation system, an upgraded lighting system, an irrigation and lighting control shed, a batting cage, ADA accessible spectator seating and an entry plaza with benches. The natural grass field will be regraded to provide improved drainage and improved athlete safety.

Section 31 B. The Applicant shall, to the extent practicable and applicable as determined solely by the Commission, integrate considerations of adaptation planning into their project to promote climate change resilience so as to protect and promote resource area values into the future. These considerations are especially important in Land Subject to Flooding (floodplain) and Riverfront Area and other Resource Areas which protect the interest of Flood Control and Storm Damage Prevention, including Adjacent Upland Resource Areas. These Resource Areas may be directly impacted by extreme weather events expected to be more prevalent or more intense due to climate change, in surface runoff of pollutants, and in wildlife habitat due to changes in temperature.

Conformance: The field currently floods and will continue to flood post development; however, the Project will increase the flood capacity of the field. For this type of project, additional resiliency provisions for adaptation are not practicable.

The Applicant shall consider the project's adaptation to potential climate change impacts by addressing the following:

(1) Describe project design considerations to limit storm and flood damage during extended periods of disruption and flooding as might be expected in extreme weather events. (See Vegetative Wetlands Section 21, Land Subject to Flooding Section 23, and Adjacent Upland Resource Area Section 25, of these Regulations.)

Response: As previously described, Hurd Field floods currently, and will continue to flood post renovation. There is limited additional impervious surfaces due to the project and the field will

have additional flood capacity post development. For this type of project, further provisions for adaptation are not practicable.

(2) Describe project stormwater surface runoff, which may increase due to storm surges and extreme weather events, and how this will be managed / mitigated to prevent pollution (including nutrients from fertilizers, roadway runoff, etc.) from entering the resource area with consideration of eliminating impervious surfaces as feasible. See Stormwater Management Section 33 of these Regulations.

Response: The Project design incorporates more formalized stormwater management by regrading to shed water off fields and is one of the main project goals. Additionally, the current soil in the field is compacted and has a high silt content. The proposed field will be amending the soil with sand to allow for better infiltration into the subsoil. See Stormwater Management Checklist and memo in Appendix A.

(3) Describe project vegetation / planting plans and other measures to improve the resiliency of the wildlife habitat of the resource area to withstand potential temperature and rainfall changes (drought and excess) due to climate change. See Vegetation Removal and Replacement Section 24 of these Regulations.

Response: No trees or shrubs are being removed for the Project so there will be no loss of wildlife habitat value in the area; however, the ballfield is not conducive to plantings and there are no proposed woody or herbaceous vegetation post-construction.

(4) Describe measures to protect proposed structures and minimize damage to structures due to the impacts of climate change.

Response: The proposed structures are limited to small field operation support sheds and are not heated or habitable structures that require stormwater or flood mitigation features.

7.0 CONSTRUCTION TERM MITIGATION

7.1 BEST MANAGEMENT PRACTICES

7.1.1 Erosion Prevention and Sediment Control

Proposed construction activities have the potential to produce dust, erosion and sediment migration from the work zone. Sediment controls will be installed prior to the start of earth disturbing activities at the limit of disturbance. Access from the work area into the parking lot and onto Drake Road will include a stabilized tracking pad or exit to minimize sediment tracking onto the public way (Appendix E). There are no existing catch basins within the parking lot, so no inlet protection is needed to protect downstream receiving waters from sediment laden discharges. Erosion prevention will include minimizing exposed areas and those exposed areas not actively worked for 14 days or more will be temporarily stabilized with seeding, mulch, and/or erosion control blankets.

A copy of the Stormwater Pollution Prevention Plan (SWPPP) will be provided to the Commission for review and approval prior to the start of construction. The SWPPP will include the erosion prevention and sediment control practices shown on the Detail Sheet in provided in Appendix E.

8.0 GENERAL CONSTRUCTION SEQUENCING AND SCHEDULE

8.1 GENERAL CONSTRUCTION SEQUENCING

Construction sequencing and schedule will be the responsibility of the General Contractor that will be awarded the contract for construction of this project. General construction sequencing is expected to be as follows:

- Contractor Mobilization
- Install sediment controls;
- Established stabilized laydown areas;
- Construct concrete washout area;
- Install new utilities
- Final lighting/landscaping
- Remove sediment control devices upon final stabilization and approval from the Commission.

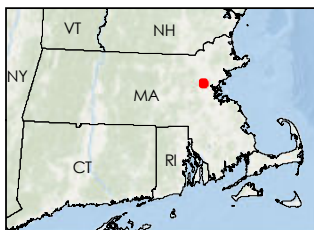
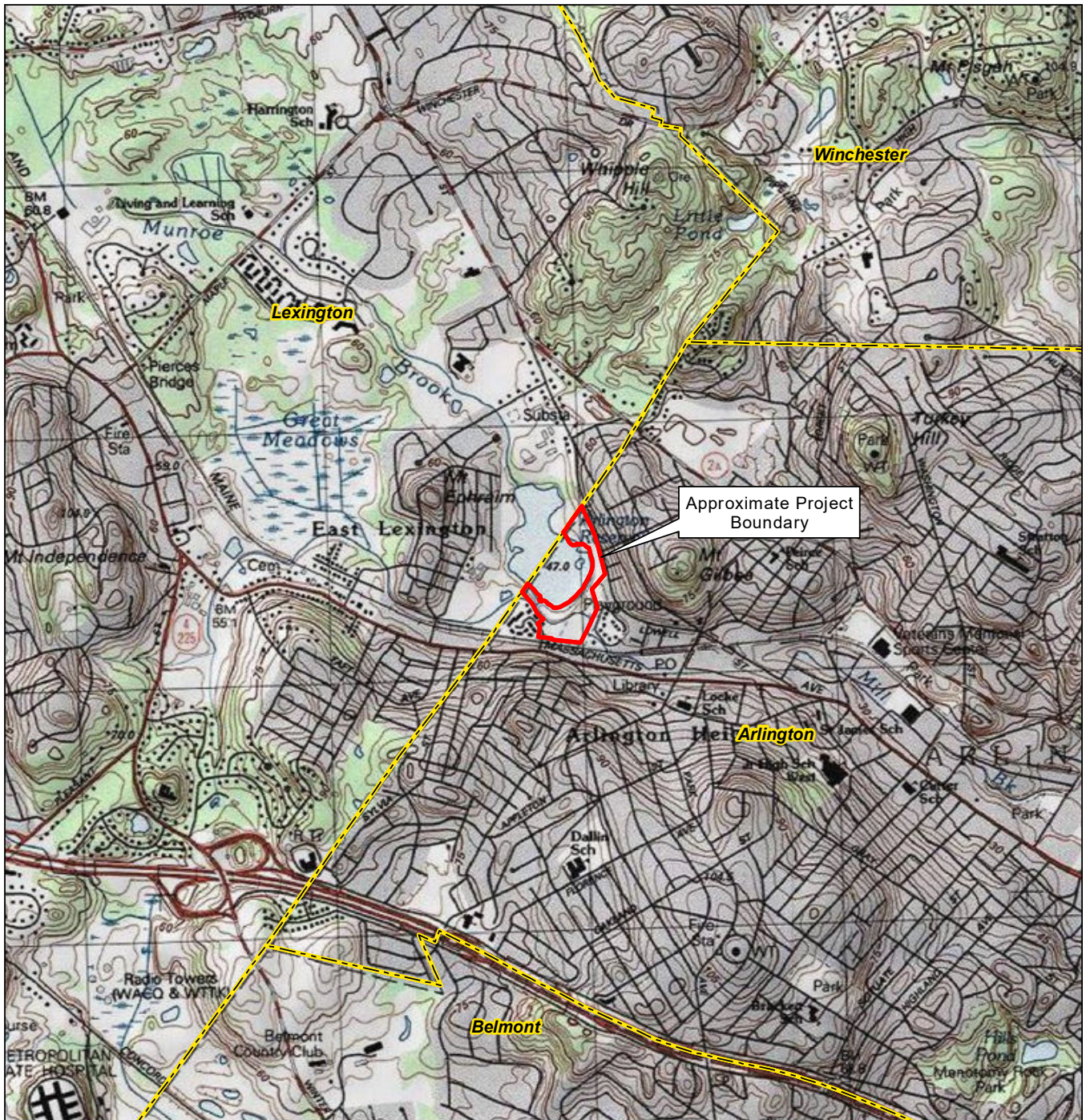
8.2 CONSTRUCTION SCHEDULE

Construction is expected to begin in Spring 2022 and take place over a 6-month period.

9.0 ABUTTER NOTIFICATION

A certified abutter's list was obtained from the Town Assessor's Office (Appendix B). Abutter notifications are being sent out concurrently with the filing of this NOI application package. The abutter notifications are being sent to each abutter, with the exception of each individual unit owner of the condominiums at Colonial Village Drive, via certified mail, return receipt requested. The Condominium Association Trustees will receive an abutter notification via certified mail, return receipt, on behalf of the owners.

FIGURES



Legend
 Approximate Project Boundary
 Municipal Boundary

0 2,000 Feet
 (At original document size of 8.5x11)
 1:24,000



Project Location: Arlington, Massachusetts
 Prepared by KWH on 2021-12-28
 Review by MS on 2022-01-04

Client/Project: 210801935

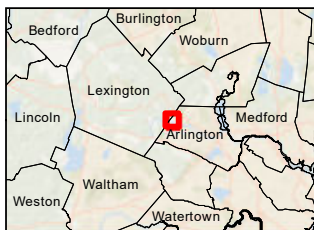
Town of Arlington Parks and Recreation Department
 Hurd Field Renovation Project

Figure No. 1

USGS Site Location Map

Notes
 1. Coordinate System: NAD 1983 StatePlane Massachusetts Mainland FIPS 2001 Feet
 2. Data Sources: Massachusetts Bureau of Geographic Information (MassGIS).
 3. Background: Topographic base map provided by USGS. Lexington Quadrangle.

V:\1556\Temporary\Kurt Howard - Projects\210801935\03_data\GIS\cardinal\NOI\210801935_02_Aerial.mxd Revised: 2022-01-04 By: khoward



- Legend**
- Approximate Project Boundary
 - Tax parcel
 - Municipal Boundary

0 400 Feet
(At original document size of 8.5x11)
1:4,800



Project Location: Arlington, Massachusetts
Prepared by KWH on 2021-12-28
Review by MS on 2022-01-04

Client/Project: 210801935

Town of Arlington Parks and Recreation Department
Hurd Field Renovation Project

Figure No.

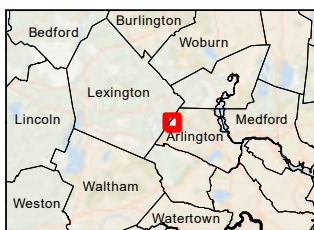
2

Title

Aerial Map

Notes

1. Coordinate System: NAD 1983 StatePlane Massachusetts Mainland FIPS 2001 Feet
2. Data Sources: MassGIS
3. Background: 2019 aerial imagery provided by MassGIS.

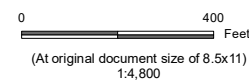


Legend

- Approximate Project Boundary
- Municipal Boundary
- FEMA Flood Hazard Designations**
 - 100 Year Flood Zone (ZONE AE, 154' BFE)
 - 500 Year Flood Zone (ZONE X)
 - Floodway

Notes

1. Coordinate System: NAD 1983 StatePlane Massachusetts Mainland FIPS 2001 Feet
2. Data Sources: MassGIS; Flood hazard data provided by FEMA, FIRM Panels 0412 and 0416, Effective Dates 2010.
3. Background: 2019 aerial imagery provided by MassGIS.



Project Location: Arlington, Massachusetts
 Prepared by KWH on 2021-12-28
 Review by MS on 2022-01-04

Client/Project: 210801935

Town of Arlington Parks and Recreation Department
 Hurd Field Renovation Project

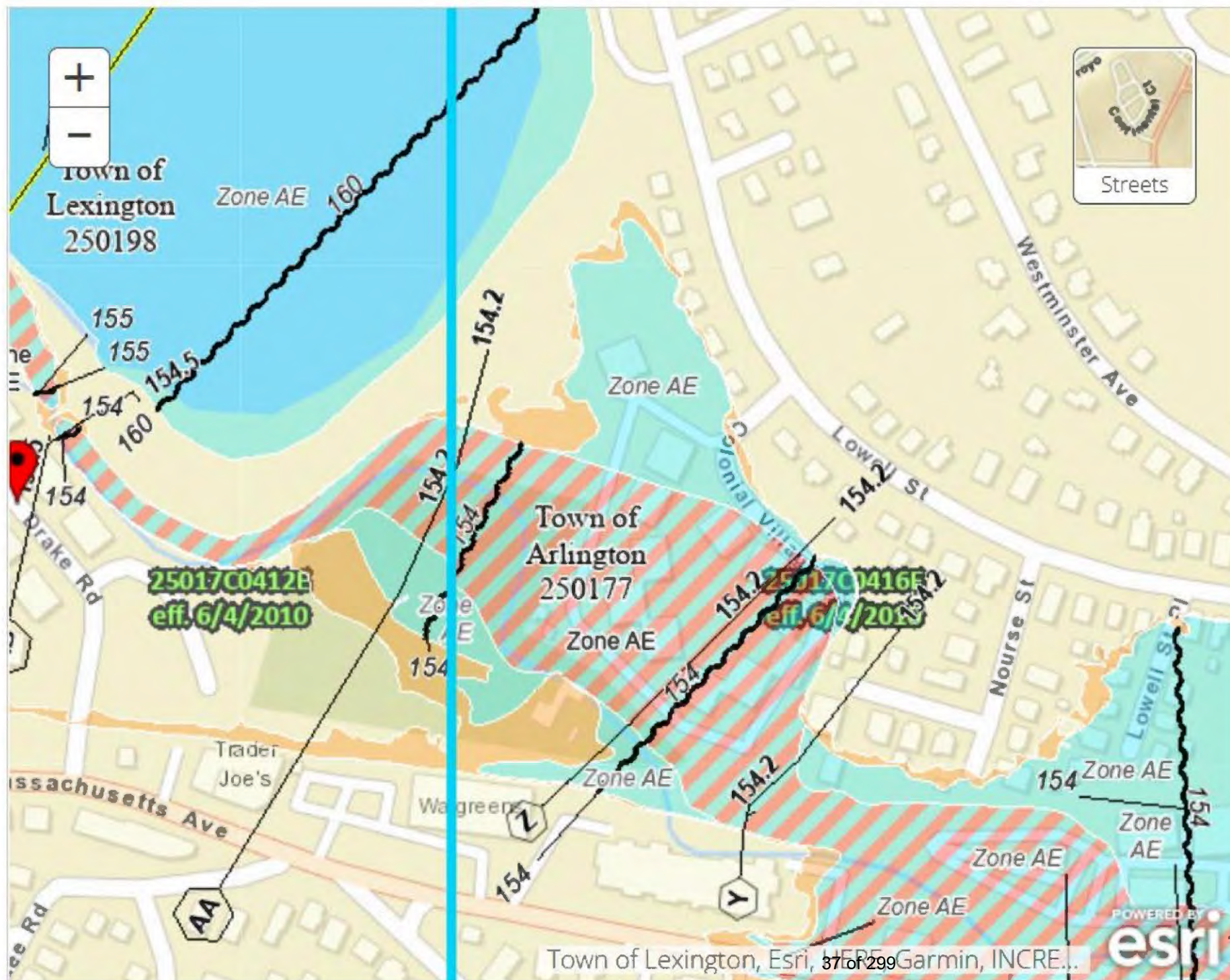
Figure No.

3

Title

FEMA Flood Hazard Map

Figure 3A



NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 National North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Massachusetts State Plane, Mainland zone (FIPSZONE 2001), meters. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NINGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Energy and Environmental Affairs. This information was derived from digital orthophotos produced at a scale of 1:5,000 from aerial photography dated April 2005.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9516 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9520 and its website at <http://fmsc.fema.gov>.


If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2827) or visit the FEMA website at <http://www.fema.gov>.


LEGEND


 **SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**



The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AD, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.









- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently determined. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.








 **FLOODWAY AREAS IN ZONE AE**
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

 **OTHER FLOOD AREAS**
ZONE X Areas of 0.2% annual chance flood, areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

 **OTHER AREAS**
ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.

 **COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
 **OTHERWISE PROTECTED AREAS (OPAs)**
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

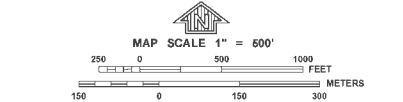
-  1% annual chance floodplain boundary
-  0.2% annual chance floodplain boundary
-  Floodway boundary
-  Zone boundary
-  CBRS and OPA boundary
-  Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
-  Base Flood Elevation line and value, elevation in feet*
-  Base Flood Elevation value where uniform within zone; elevation in feet*

- * Referenced to the North American Vertical Datum of 1988
-  Cross section line
-  Transect line
-  Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
-  1000-meter Universal Transverse Mercator grid values, zone 19
-  5000-foot grid values: Massachusetts State Plane coordinate system, Mainland zone (FIPSZONE 2001), Lambert Conformal Conic projection
-  Bench mark (see explanation in Notes to Users section of this FIRM panel)
-  River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index.
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
June 4, 2010

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-538-6620.



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0416E

FIRM

FLOOD INSURANCE RATE MAP


MIDDLESEX COUNTY,
MASSACHUSETTS
(ALL JURISDICTIONS)

PANEL 416 OF 656
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
ARLINGTON, TOWN OF	250177	0416	E
BELMONT, TOWN OF	250182	0416	E
LEXINGTON, TOWN OF	250198	0416	E
WINCHESTER, TOWN OF	250228	0416	E

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
25017C0416E

EFFECTIVE DATE
JUNE 4, 2010

Federal Emergency Management Agency

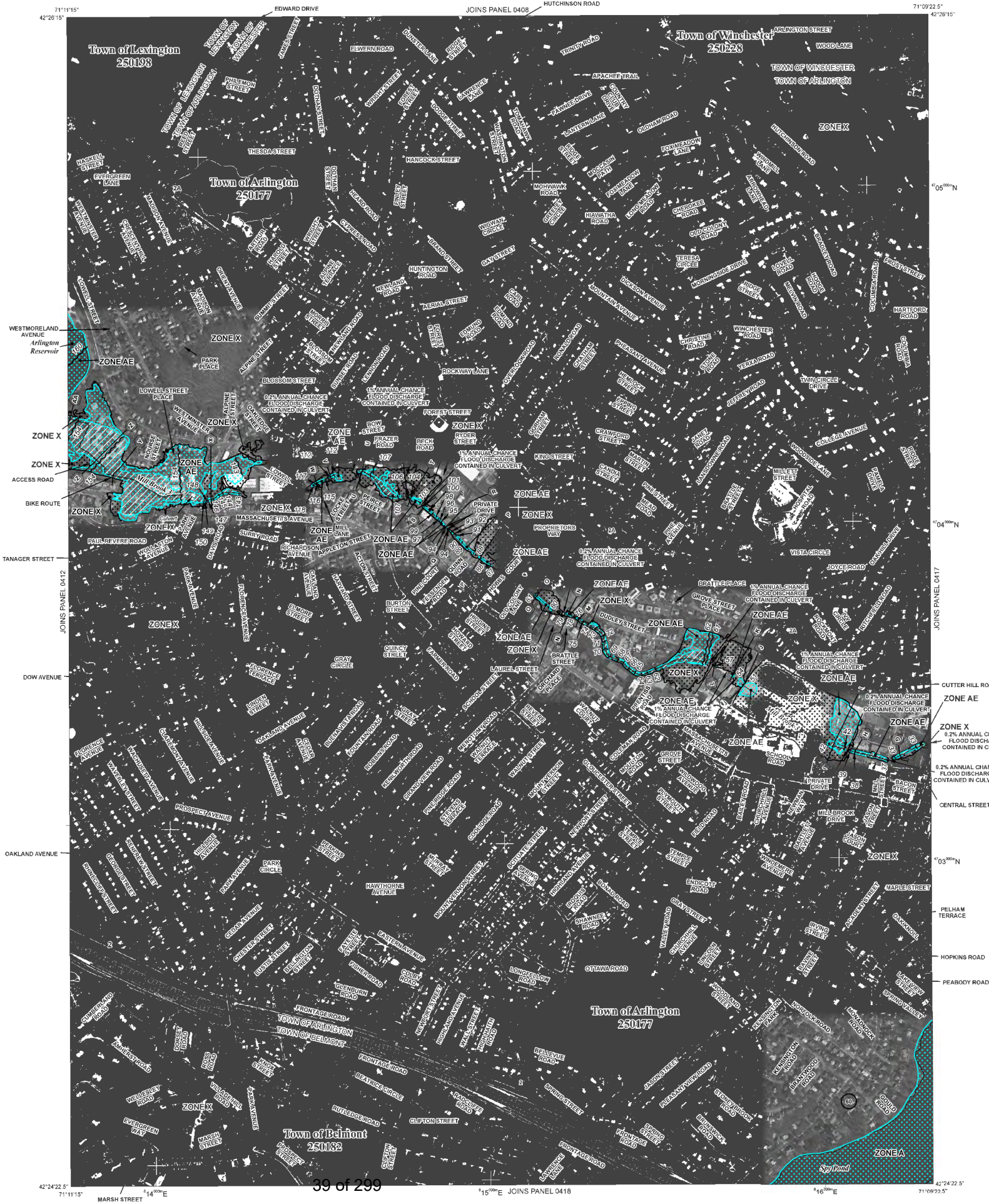


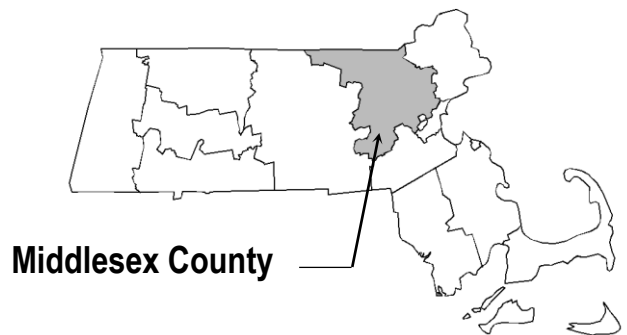
Figure 3C

FLOOD INSURANCE STUDY

VOLUME 2 OF 8



MIDDLESEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)



COMMUNITY NAME

ACTON, TOWN OF
ARLINGTON, TOWN OF
ASHBY, TOWN OF
ASHLAND, TOWN OF
AYER, TOWN OF
BEDFORD, TOWN OF
BELMONT, TOWN OF
BILLERICA, TOWN OF
BOXBOROUGH, TOWN OF
BURLINGTON, TOWN OF
CAMBRIDGE, CITY OF
CARLISLE, TOWN OF
CHELMSFORD, TOWN OF
CONCORD, TOWN OF
DRACUT, TOWN OF
DUNSTABLE, TOWN OF
EVERETT, CITY OF
FRAMINGHAM, TOWN OF
GROTON, TOWN OF
HOLLISTON, TOWN OF
HOPKINTON, TOWN OF
HUDSON, TOWN OF
LEXINGTON, TOWN OF
LINCOLN, TOWN OF
LITTLETON, TOWN OF
LOWELL, CITY OF
MALDEN, CITY OF
MARLBOROUGH, CITY OF
MAYNARD, TOWN OF
MEDFORD, CITY OF

COMMUNITY NUMBER

250176
250177
250178
250179
250180
255209
250182
250183
250184
250185
250186
250187
250188
250189
250190
250191
250192
250193
250194
250195
250196
250197
250198
250199
250200
250201
250202
250203
250204
250205

COMMUNITY NAME

MELROSE, CITY OF
NATICK, TOWN OF
NEWTON, CITY OF
NORTH READING, TOWN OF
PEPPERELL, TOWN OF
READING, TOWN OF
SHERBORN, TOWN OF
SHIRLEY, TOWN OF
SOMERVILLE, CITY OF
STONEHAM, TOWN OF
STOW, TOWN OF
SUDBURY, TOWN OF
TEWKSBURY, TOWN OF
TOWNSEND, TOWN OF
TYNGSBOROUGH, TOWN OF
WAKEFIELD, TOWN OF
WALTHAM, CITY OF
WATERTOWN, TOWN OF
WAYLAND, TOWN OF
WESTFORD, TOWN OF
WESTON, TOWN OF
WILMINGTON, TOWN OF
WINCHESTER, TOWN OF
WOBURN, CITY OF

COMMUNITY NUMBER

250206
250207
250208
250209
250210
250211
250212
250213
250214
250215
250216
250217
250218
250219
250220
250221
250222
250223
250224
250225
250226
250227
250228
250229



REVISED:
July 6, 2016

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
25017CV002C

NOTICE TO
FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

Part or all of this FIS may be revised and republished at any time. In addition, part of this FIS may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current FIS components.

Initial Countywide FIS Effective Date: June 4, 2010

Revised Countywide FIS Date: July 7, 2014

Revised Countywide FIS Date: July 6, 2016

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Mill Brook 3 (continued)								
K	6,810	21	84	5.5	54.2	54.2	54.2	0.0
L	7,010	8*	50	9.2	57.2	57.2	57.2	0.0
M	8,640	23*	56	8.9	75.7	75.7	76.0	0.3
N	8,760	15	69	6.6	78.5	78.5	78.5	0.0
O	9,120	17	81	5.6	80.7	80.7	80.8	0.1
P	9,800	16*	73	5.8	88.0	88.0	88.0	0.0
Q	10,220	12	67	6.4	94.1	94.1	94.6	0.6
R	10,250	11	70	6.0	94.3	94.3	94.8	0.6
S	10,540	11	44	9.8	100.9	100.9	100.9	0.0
T	10,700	11	51	8.4	103.9	103.9	103.8	0.0
U	11,280	29	66	5.1	107.1	107.1	106.9	0.1
V	11,600	19	63	5.4	111.8	111.8	111.7	0.0
W	11,750	17*	33	6.5	116.1	116.1	115.9	0.1
X	12,830	19	35	6.0	146.2	146.2	147.2	1.0
Y	13,880	120	420	0.6	154.2	154.2	154.3	0.1
Z	14,130	348*	577	0.4	154.2	154.2	154.3	0.1
AA	14,770	181*	360	0.6	154.2	154.2	154.4	0.2
AB	15,490	36	128	0.7	154.5	154.5	154.6	0.1
AC	16,970	32*	82	1.0	154.7	154.7	154.7	0.0
AD	18,010	24*	39	2.2	162.8	162.8	162.8	0.0
AE	19,540	50*	716	1.7	164.7	164.7	164.6	0.0

¹ Feet above confluence with Lower Mystic Lake

* The measured top width on the FIRM may differ due to the effects of ineffective flow, the exclusion of small pocket areas due to map scale limitations, or is estimated due to HEC-RAS modeling limitations

TABLE 12

FEDERAL EMERGENCY MANAGEMENT AGENCY

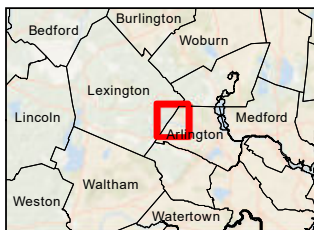
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

FLOODWAY DATA

MILL BROOK 3

42 of 299

V:\1556\Temporary\Kurt Howard - Projects\210801935\03_data\gis\cad\gis\MXDs\NOI\210801935_04_NHESP.mxd Revised: 2022-01-04 By: khoward



Notes
1. Coordinate System: NAD 1983 StatePlane
Massachusetts Mainland FIPS 2001 Feet
2. Data Sources: MassGIS; NHESP.
3. Background: 2019 aerial imagery provided by
MassGIS.

- Legend**
- Certified Vernal Pool
 - Potential Vernal Pool
 - Priority Habitats of Rare Species
 - Estimated Habitats of Rare Wildlife
 - Approximate Project Boundary
 - Municipal Boundary

0 1,000 Feet
(At original document size of 8.5x11)
1:12,000



Project Location
Arlington, Massachusetts

Prepared by KWH on 2021-12-28
Review by MS on 2022-01-04

Client/Project
210801935

Town of Arlington Parks and Recreation Department
Hurd Field Renovation Project

Figure No.
4

Title
**Natural Heritage Priority and
Estimated Habitats of Rare Species**

Figure 5: Site Rendering



Appendix A STORMWATER MANAGEMENT CHECKLIST AND MEMORANDUM





Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the [Massachusetts Stormwater Handbook](#). The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



Karen S. Beighley, PE

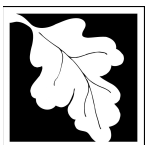
1/5/2022

Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

- ☐ New development Ball Field Improvements
- ☐ Redevelopment
- ☐ Mix of New Development and Redevelopment



Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

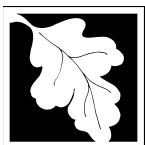
- ☐ No disturbance to any Wetland Resource Areas
- ☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☐ Reduced Impervious Area (Redevelopment Only)
- ☐ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
 - ☐ Credit 1
 - ☐ Credit 2
 - ☐ Credit 3
- ☐ Use of "country drainage" versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☐ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☐ Grass Channel
- ☐ Green Roof
- ☐ Other (describe): _____

**N/A The project does not
require LID measures**

Standard 1: No New Untreated Discharges

**N/A The project does not include any
new untreated discharges**

- ☒ No new untreated discharges
- ☐ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☐ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



Checklist for Stormwater Report

Checklist (continued)

N/A The project does not include any discharges

Standard 2: Peak Rate Attenuation

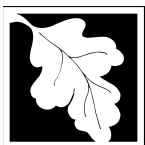
- ☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- ☐ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- ☐ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

N/A The project does not include any discharges or recharge

- ☐ Soil Analysis provided.
- ☐ Required Recharge Volume calculation provided.
- ☐ Required Recharge volume reduced through use of the LID site Design Credits.
- ☐ Sizing the infiltration, BMPs is based on the following method: Check the method used.
 - ☐ Static
 - ☐ Simple Dynamic
 - ☐ Dynamic Field¹
- ☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.
- ☐ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- ☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- ☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - ☐ Site is comprised solely of C and D soils and/or bedrock at the land surface
 - ☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - ☐ Solid Waste Landfill pursuant to 310 CMR 19.000
 - ☐ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- ☐ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- ☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

- ☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- ☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

N/A The project does not include any discharges

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
 - Provisions for storing materials and waste products inside or under cover;
 - Vehicle washing controls;
 - Requirements for routine inspections and maintenance of stormwater BMPs;
 - Spill prevention and response plans;
 - Provisions for maintenance of lawns, gardens, and other landscaped areas;
 - Requirements for storage and use of fertilizers, herbicides, and pesticides;
 - Pet waste management provisions;
 - Provisions for operation and management of septic systems;
 - Provisions for solid waste management;
 - Snow disposal and plowing plans relative to Wetland Resource Areas;
 - Winter Road Salt and/or Sand Use and Storage restrictions;
 - Street sweeping schedules;
 - Provisions for prevention of illicit discharges to the stormwater management system;
 - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
 - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
 - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- ☐ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
 - ☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
 - ☐ is within the Zone II or Interim Wellhead Protection Area
 - ☐ is near or to other critical areas
 - ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - ☐ involves runoff from land uses with higher potential pollutant loads.
 - ☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.
 - ☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

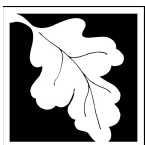
- ☐ The BMP is sized (and calculations provided) based on:
 - ☐ The ½" or 1" Water Quality Volume or
 - ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- ☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- ☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- ☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- ☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- ☐ The NPDES Multi-Sector General Permit does **not** cover the land use.
- ☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- ☐ All exposure has been eliminated. **N/A The project is not considered to be a LUHPPL**
- ☐ All exposure has **not** been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- ☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas **N/A The project has no discharges**

- ☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- ☐ Critical areas and BMPs are identified in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- ☐ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
- N/A The project does not require stormwater management**
- ☐ Limited Project
- ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
- ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
- ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
- ☐ Bike Path and/or Foot Path
- ☐ Redevelopment Project
- ☐ Redevelopment portion of mix of new and redevelopment.
- ☐ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- ☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
 - Construction Period Operation and Maintenance Plan;
 - Names of Persons or Entity Responsible for Plan Compliance;
 - Construction Period Pollution Prevention Measures;
 - Erosion and Sedimentation Control Plan Drawings;
 - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
 - Vegetation Planning;
 - Site Development Plan;
 - Construction Sequencing Plan;
 - Sequencing of Erosion and Sedimentation Controls;
 - Operation and Maintenance of Erosion and Sedimentation Controls;
 - Inspection Schedule;
 - Maintenance Schedule;
 - Inspection and Maintenance Log Form.
- ☐ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

- ☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- ☐ The project is **not** covered by a NPDES Construction General Permit.
- ☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- ☒ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan **N/A No new infrastructure is proposed**

- ☐ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - ☐ Name of the stormwater management system owners;
 - ☐ Party responsible for operation and maintenance;
 - ☐ Schedule for implementation of routine and non-routine maintenance tasks;
 - ☐ Plan showing the location of all stormwater BMPs maintenance access areas;
 - ☐ Description and delineation of public safety features;
 - ☐ Estimated operation and maintenance budget; and
 - ☐ Operation and Maintenance Log Form.
- ☐ The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
 - ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges **N/A The project does not include illicit discharges or any discharges**

- ☐ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- ☐ An Illicit Discharge Compliance Statement is attached;
- ☐ NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.

To:	Town of Arlington	From:	Karen Beighley Stantec
File:	Hurd Field	Date:	January 5, 2022

Reference: Hurd Field – Stormwater Management Memo

Introduction

The Town of Arlington proposes to build two 120' x 180' youth soccer fields, one 120' x 90' half youth soccer field, and one youth baseball field on the existing Hurd Field property located at 25 Drake Road, Arlington Massachusetts.

The site will be comprised of primarily grassed area and fields. In addition, the town plans to install areas with picnic table areas, a pedestrian walking loop (porous asphalt pavement), athletic light poles, a storage shed, and chain link fences. The proposed site is located partially within flood zone AE, with a flood elevation of 154'. As a result of the proximity to the flood zone, the proposed site conditions will maintain existing hydrologic conditions to the maximum extent practicable, and grading will be performed to ensure there is no net fill of earthwork on the site.

Stormwater Standards

Standard 1 – Untreated Discharge

Standard 1 states that “no new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.”

There are no new proposed stormwater outfalls on this project.

Therefore, the project will comply with Standard 1.

Standard 2 – Peak Rate Attenuation

Standard 2 states that “stormwater management systems shall be designed so that post-development peak discharge rates do not exceed pre-development peak discharge rates.”

As this project is considered a redevelopment with no increase in impervious area, this standard is met only to the maximum extent practicable.

Table 1: Comparison of Peak Rates

Discharge Point	2-Year Storm		10-Year Storm		25-Year Storm		100-Year Storm	
	Exist. (cfs)	Prop. (cfs)	Exist. (cfs)	Prop. (cfs)	Exist. (cfs)	Prop. (cfs)	Exist. (cfs)	Prop. (cfs)
DP1	0.00	0.00	0.05	0.07	0.13	0.18	1.12	1.46
DP2	0.03	0.05	0.27	0.40	0.49	0.69	1.80	2.34
DP3	0.01	0.00	0.15	0.10	0.51	0.39	4.26	3.63
DP4	0.03	0.05	0.27	0.40	0.70	0.69	5.12	4.35

Standard 3

Standard 3 states that the “loss of annual recharge to groundwater shall be eliminated or minimized through the use of infiltration measures including environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the annual recharge from the pre-development conditions based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.”

As this project is considered a redevelopment with no increase in impervious area, this standard is met only to the maximum extent practicable.

Standard 4 – Water Quality

Standard 4 states that “Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids.”

Standard 4 is met when a project complies with all of the following criteria:

1. Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan, and thereafter are implemented and maintained.
2. Structural stormwater best management practices are sized to capture the required water quality volume determined in accordance with the Massachusetts Stormwater Handbook; and
3. Pre-treatment is provided in accordance with the Massachusetts Stormwater Handbook

As this project is considered a redevelopment with no increase in impervious area, this standard is met only to the maximum extent practicable.

Standard 5 – Land Uses with Higher Potential Pollutant Loads (LUHPPL)

Standard 5 states that “for land uses with higher potential pollutant loads [LUHPPL], source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable.”

The project does not exceed requirements and therefore is not considered a LUHPPL.

Therefore, the project complies with Standard 5.

Standard 6 – Critical Areas

Standard 6 states that “Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply, and stormwater discharges near or to any other critical area, require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such areas, as provided in the Massachusetts Stormwater Handbook.”

Critical areas include any one of the following, as defined by the Massachusetts Department of Environmental Protection:

- Outstanding Resource Waters
- Special Resource Waters
- Zone I Recharge Areas
- Zone II Recharge Areas
- Interim Wellhead Protection Areas
- Zone A Recharge Areas
- Bathing Beaches
- Cold-water Fisheries
- Shellfish Growing Areas

The proposed stormwater management system does not discharge near or to any of the above listed critical areas.

Therefore, the project complies with Standard 6.

Standard 7 – Redevelopment Projects

Standard 7 states that “a redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable: Standard 2, Standard 3, and the pretreatment and structural best management practice requirements of Standards 4, 5, and 6. Existing stormwater discharges shall comply with Standard 1 only to the maximum extent practicable. A redevelopment project shall also comply with all other requirements of the Stormwater Management Standards and improve existing conditions.”

As there will be a small decrease in impervious area (a decrease of 1,458 square feet), through the use of pervious pavement walkways, the project complies with standards 2, 3 and 4 to the maximum extent practicable.

Standard 8 – Erosion and Sediment Control Plan

Standard 8 states that “a plan to control construction-related impacts including erosion, sedimentation and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.”

Sedimentation and erosion controls will be implemented during the construction of all phases of the project.

Therefore, the project will comply with Standard 8.

Standard 9 – Operation and Maintenance Plan

Standard 9 states that “a long-term operation and maintenance plan shall be developed and implemented to ensure that stormwater management systems function as designed.”

An operation and maintenance plan will be provided in the Notice of Intent submitted to the Town of Arlington Conservation Commission.

Therefore, the project will comply with Standard 9.

Standard 10

Standard 10 states that “all illicit discharges to the stormwater management system are prohibited.”

The project will not allow illicit discharges to the stormwater management system. The final design will comply with the below Illicit Discharge Compliance Statement:

Illicit Discharge Compliance Statement

Per the requirements of Standard 10 of the Massachusetts Stormwater Management Standards, it shall be stated that no illicit discharges are proposed as part of the Hurd Field project located in Arlington, Massachusetts, as described herein this stormwater report.

Therefore, the project will comply with Standard 10.

Attachments:

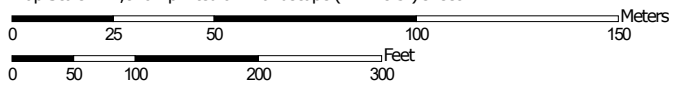
NCS Hydrologic Soil Survey
Existing Conditions Drainage Area Map
Existing Conditions HydroCAD Report
Proposed Conditions Drainage Area Map
Proposed Conditions HydroCAD Report

Hydrologic Soil Group—Middlesex County, Massachusetts



Soil Map may not be valid at this scale.

Map Scale: 1:1,870 if printed on A landscape (11" x 8.5") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84



MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points





 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available


Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Middlesex County, Massachusetts
 Survey Area Data: Version 21, Sep 2, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 13, 2020—Sep 15, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
1	Water		0.8	6.1%
253B	Hinckley loamy sand, 3 to 8 percent slopes	A	1.0	7.8%
602	Urban land		5.8	44.3%
626B	Merrimac-Urban land complex, 0 to 8 percent slopes	A	2.9	22.2%
629C	Canton-Charlton-Urban land complex, 3 to 15 percent slopes	A	0.2	1.3%
655	Udorthents, wet substratum		2.4	18.4%
Totals for Area of Interest			13.2	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

CLIENT/OWNER
Town of Arlington
Parks and Recreation
422 Summer St.
Arlington, MA 02474

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[illegible]

Issued	By	Appd.	MM.DD.
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File Name: _____

Permit-Seal

Client/Project
TOWN OF ARLINGTON

HURD FIELD RENOVATIONS

Arlington, MA

Title

EXISTING CONDITIONS

Project No.
210801935

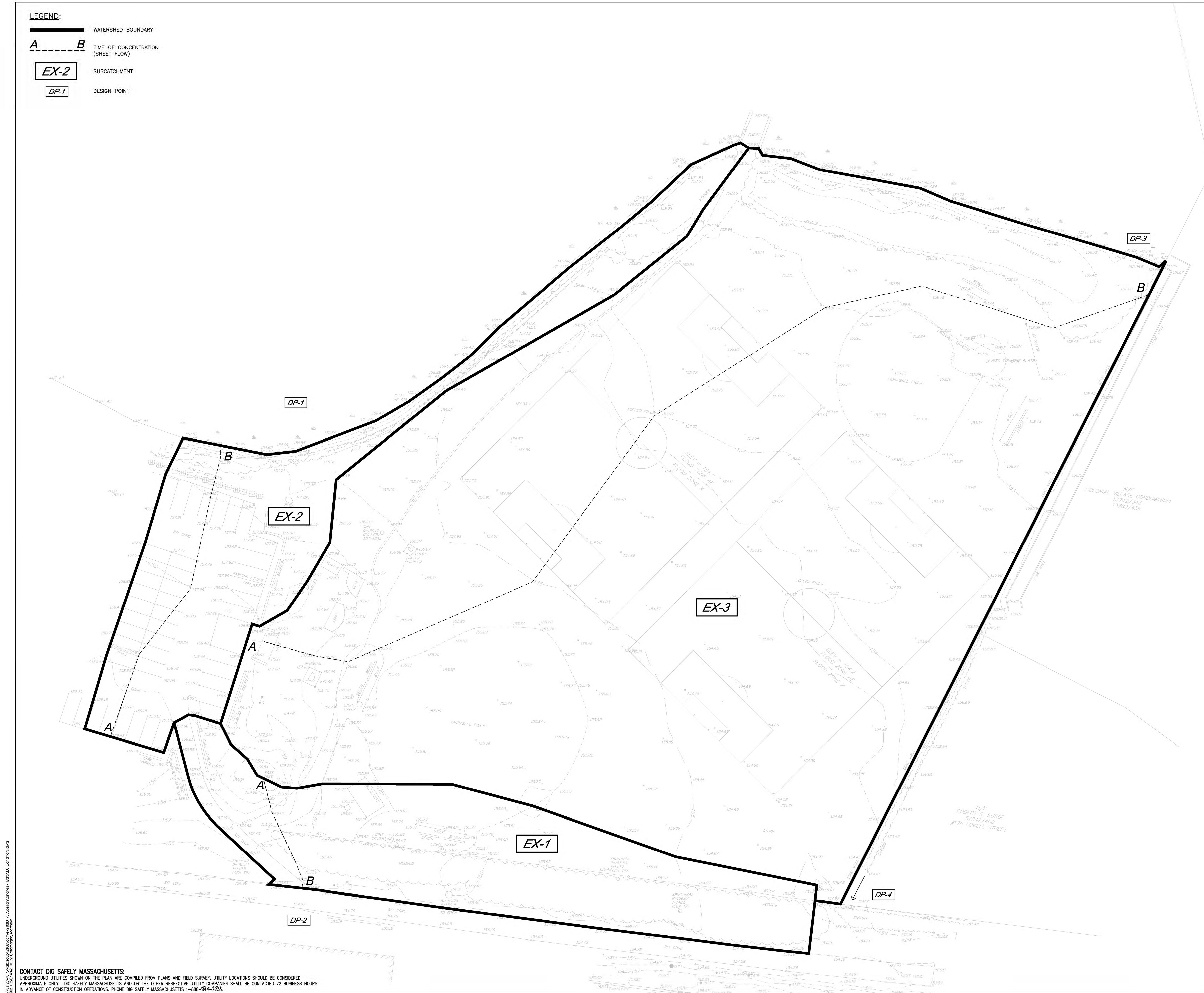
Scale

Sheet

Drawing No.

of

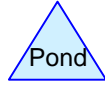
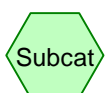
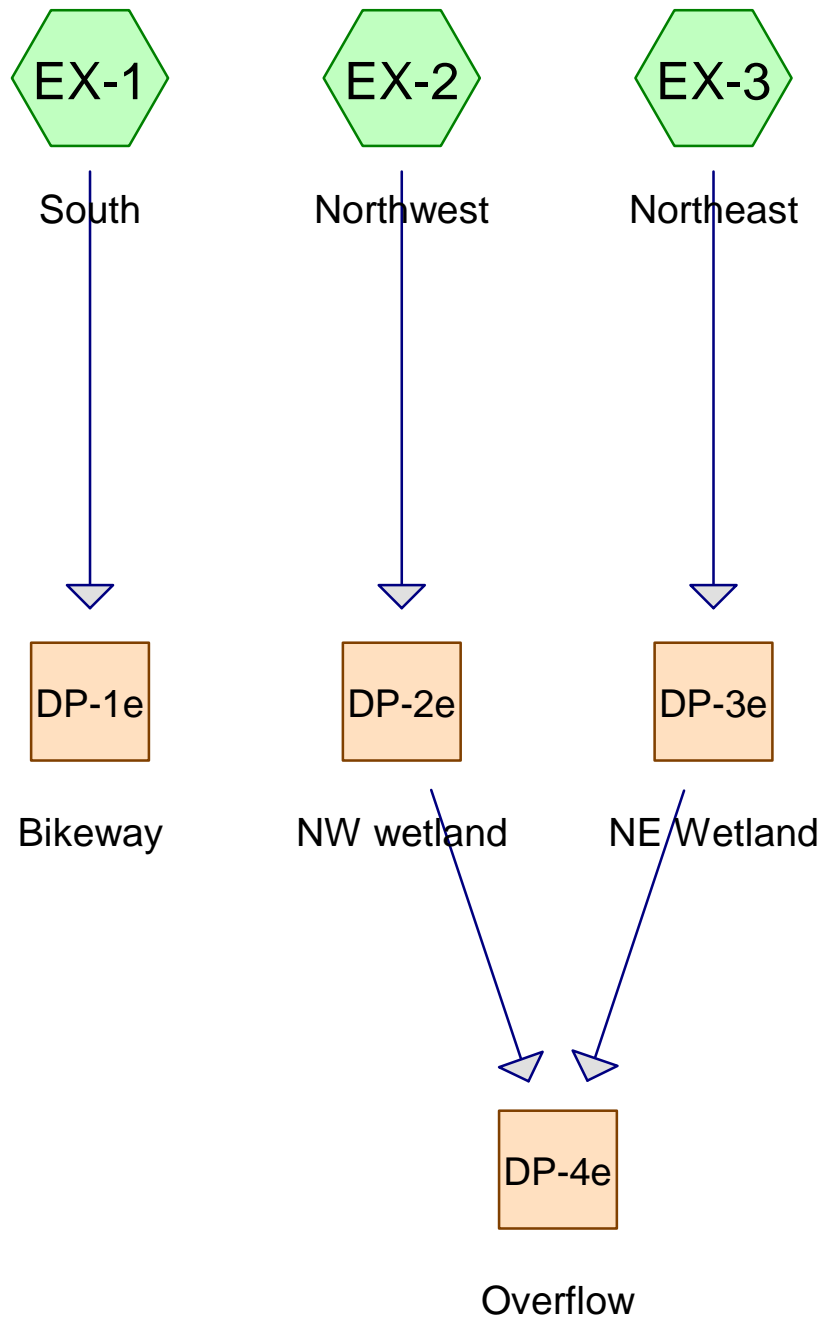
FIG-1



CONTACT DIG SAFELY MASSACHUSETTS:
UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE COMPILED FROM PLANS AND FIELD SURVEY. UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY. DIG SAFELY MASSACHUSETTS AND/OR THE OTHER RESPECTIVE UTILITY COMPANIES SHALL BE CONTACTED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS. PHONE DIG SAFELY MASSACHUSETTS 1-888-944-7999.

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Page 2

Area Listing (selected nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
128,026	39	>75% Grass cover, Good, HSG A (EX-1, EX-2, EX-3)
20,719	72	Dirt roads, HSG A (EX-1, EX-3)
1,666	98	Paved parking, HSG A (EX-1, EX-3)
10,636	72	Pervious Pavement (EX-2)
19,991	30	Woods, Good, HSG A (EX-1, EX-2, EX-3)

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Existing Conditions

Type III 24-hr 2-Year Rainfall=3.10"

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Summary for Subcatchment EX-1: South

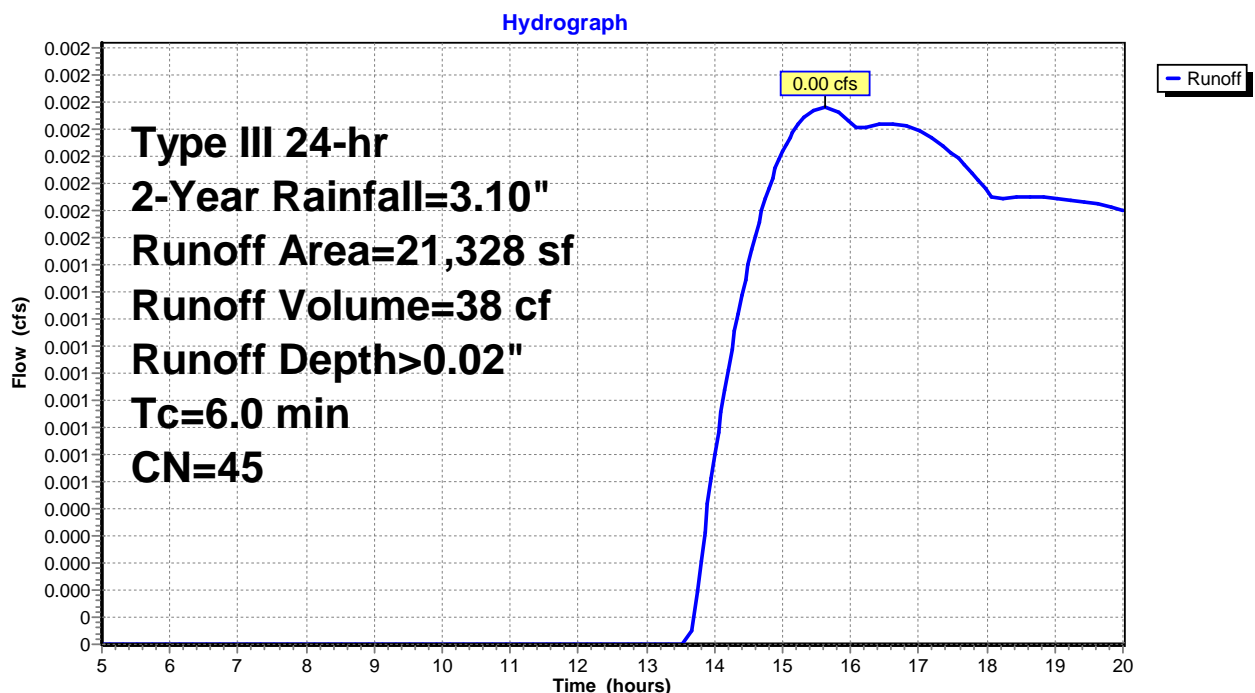
Runoff = 0.00 cfs @ 15.61 hrs, Volume= 38 cf, Depth> 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.10"

Area (sf)	CN	Description
9,820	39	>75% Grass cover, Good, HSG A
6,978	30	Woods, Good, HSG A
3,193	72	Dirt roads, HSG A
1,337	98	Paved parking, HSG A
21,328	45	Weighted Average
19,991		93.73% Pervious Area
1,337		6.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment EX-1: South



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Existing Conditions

Type III 24-hr 2-Year Rainfall=3.10"

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Summary for Subcatchment EX-2: Northwest

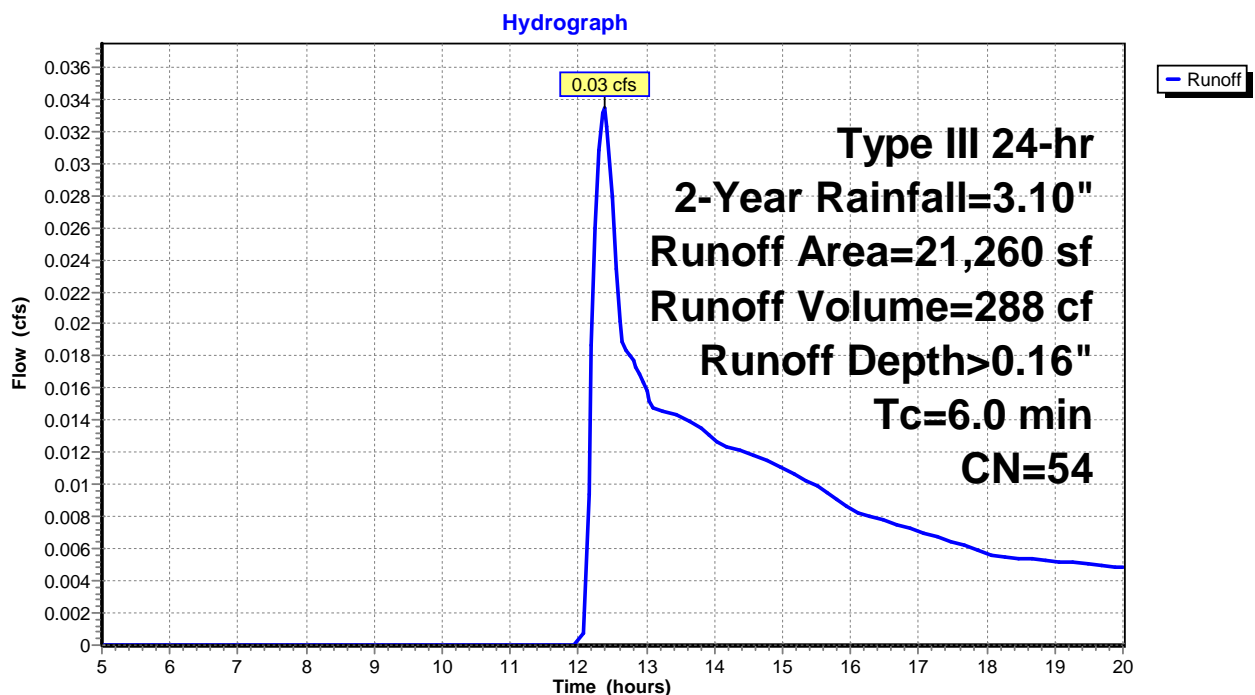
Runoff = 0.03 cfs @ 12.38 hrs, Volume= 288 cf, Depth> 0.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.10"

Area (sf)	CN	Description
6,806	39	>75% Grass cover, Good, HSG A
3,818	30	Woods, Good, HSG A
0	72	Dirt roads, HSG A
* 10,636	72	Pervious Pavement
21,260	54	Weighted Average
21,260		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment EX-2: Northwest



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Existing Conditions

Type III 24-hr 2-Year Rainfall=3.10"

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Summary for Subcatchment EX-3: Northeast

Runoff = 0.01 cfs @ 20.00 hrs, Volume= 79 cf, Depth> 0.01"

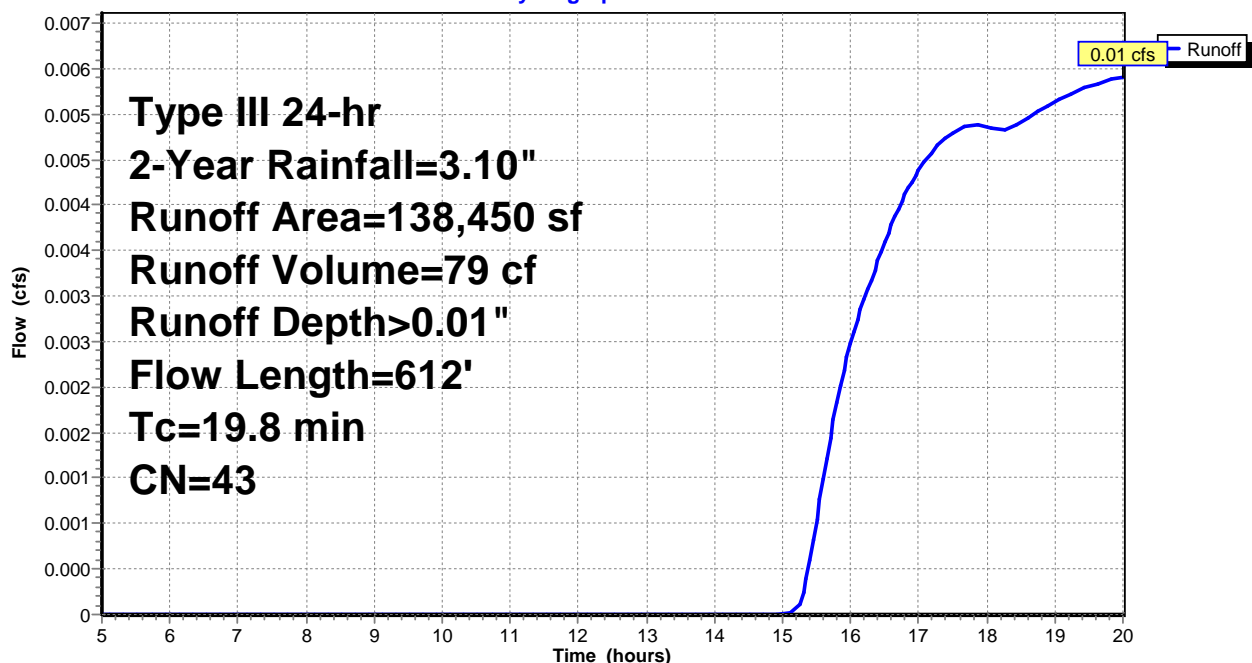
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.10"

Area (sf)	CN	Description
111,400	39	>75% Grass cover, Good, HSG A
9,195	30	Woods, Good, HSG A
17,526	72	Dirt roads, HSG A
329	98	Paved parking, HSG A
138,450	43	Weighted Average
138,121		99.76% Pervious Area
329		0.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	50	0.0314	0.18		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
15.1	562	0.0079	0.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
19.8	612	Total			

Subcatchment EX-3: Northeast

Hydrograph



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Existing Conditions

Type III 24-hr 2-Year Rainfall=3.10"

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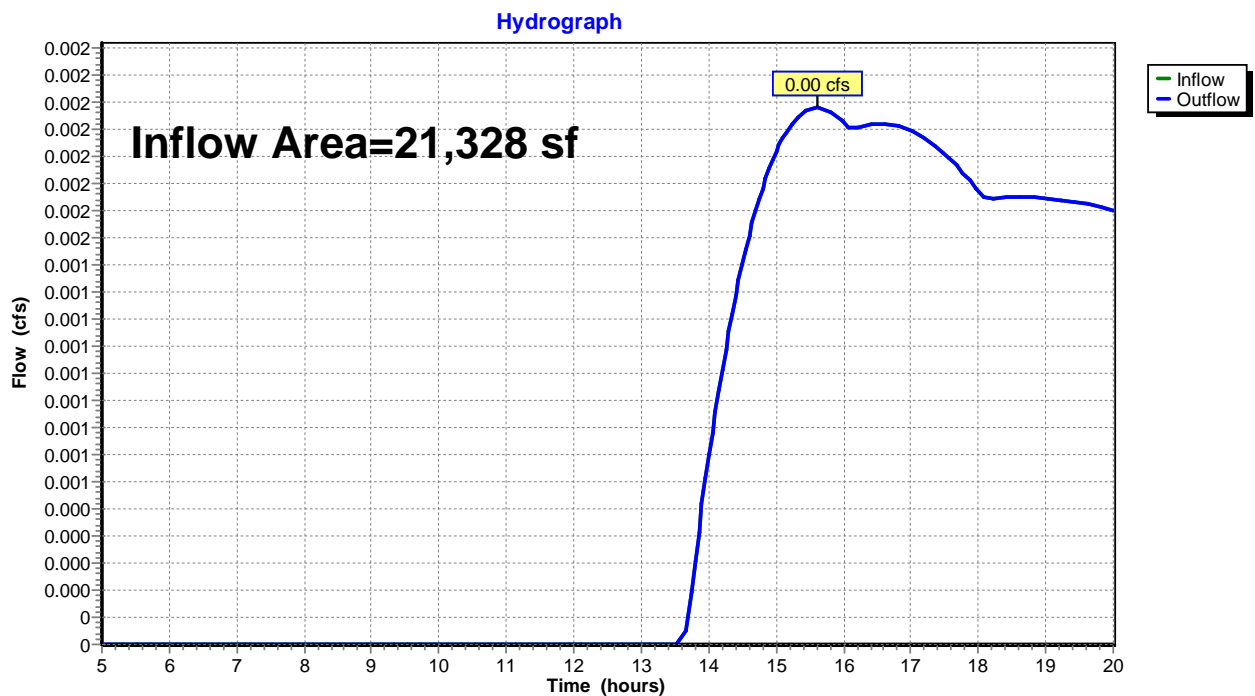
Page 6

Summary for Reach DP-1e: Bikeway

Inflow Area = 21,328 sf, 6.27% Impervious, Inflow Depth > 0.02" for 2-Year event
Inflow = 0.00 cfs @ 15.61 hrs, Volume= 38 cf
Outflow = 0.00 cfs @ 15.61 hrs, Volume= 38 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-1e: Bikeway



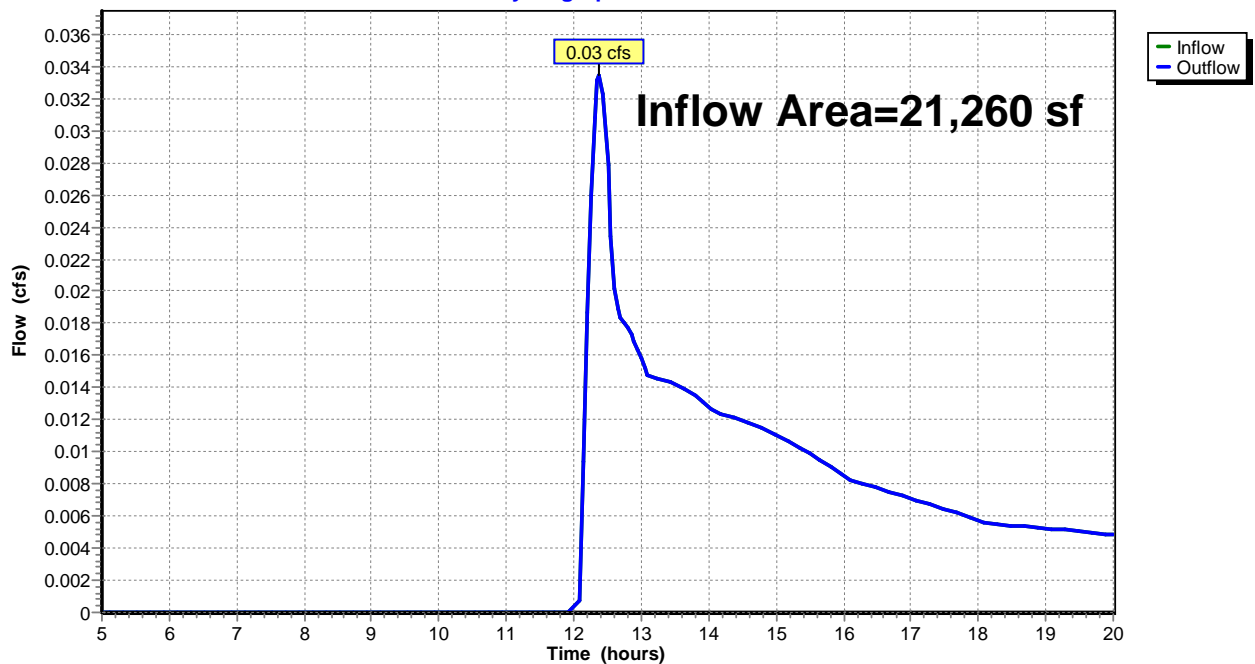
Summary for Reach DP-2e: NW wetland

Inflow Area = 21,260 sf, 0.00% Impervious, Inflow Depth > 0.16" for 2-Year event
Inflow = 0.03 cfs @ 12.38 hrs, Volume= 288 cf
Outflow = 0.03 cfs @ 12.38 hrs, Volume= 288 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-2e: NW wetland

Hydrograph



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Existing Conditions

Type III 24-hr 2-Year Rainfall=3.10"

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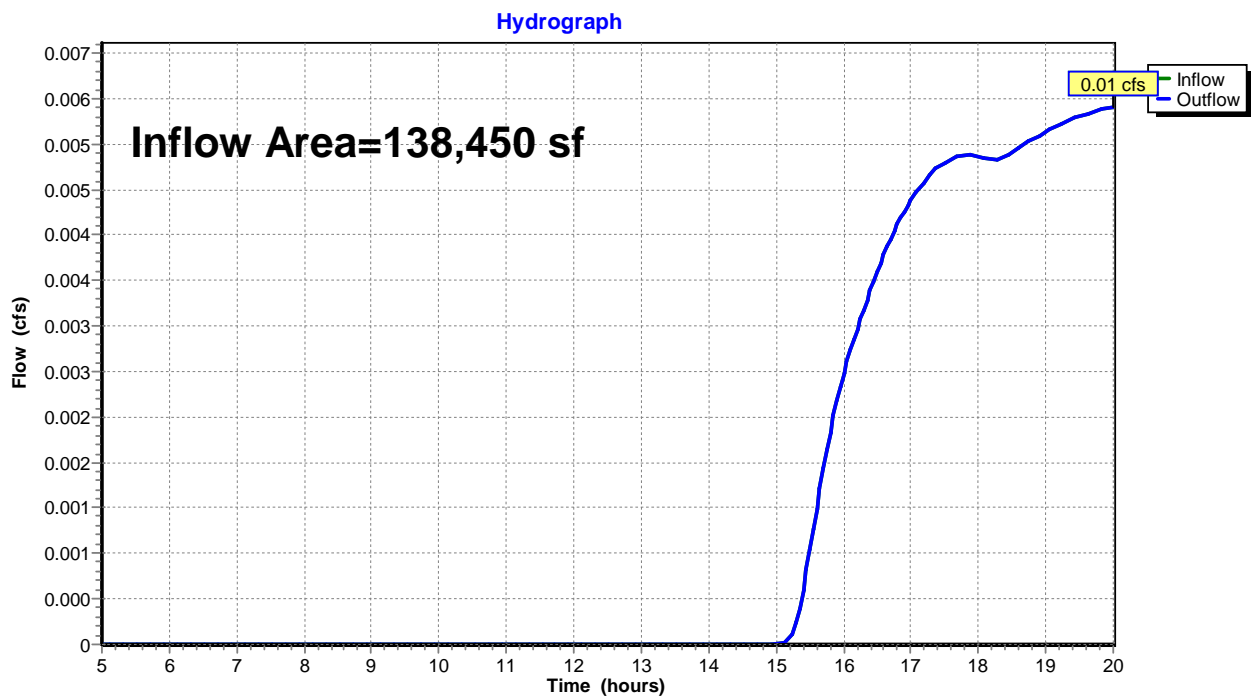
Page 8

Summary for Reach DP-3e: NE Wetland

Inflow Area = 138,450 sf, 0.24% Impervious, Inflow Depth > 0.01" for 2-Year event
Inflow = 0.01 cfs @ 20.00 hrs, Volume= 79 cf
Outflow = 0.01 cfs @ 20.00 hrs, Volume= 79 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

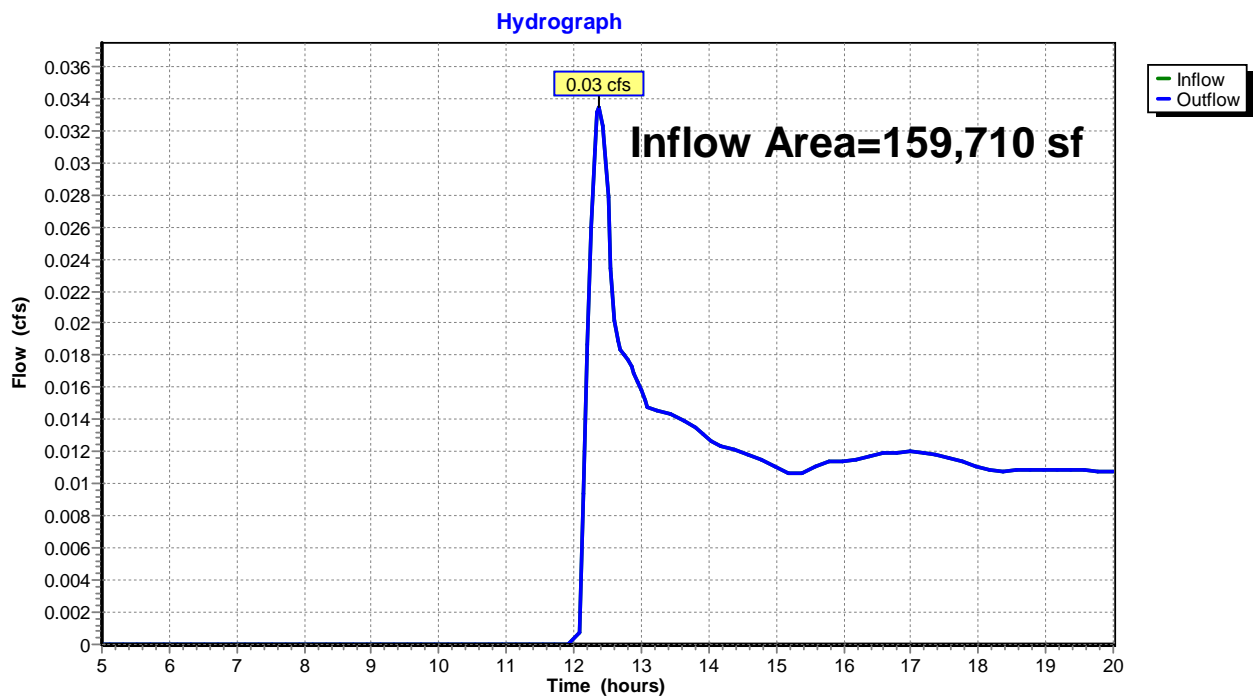
Reach DP-3e: NE Wetland



Summary for Reach DP-4e: Overflow

Inflow Area = 159,710 sf, 0.21% Impervious, Inflow Depth > 0.03" for 2-Year event
Inflow = 0.03 cfs @ 12.38 hrs, Volume= 366 cf
Outflow = 0.03 cfs @ 12.38 hrs, Volume= 366 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-4e: Overflow

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Existing Conditions
Type III 24-hr 10-Year Rainfall=4.50"

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Page 10

Summary for Subcatchment EX-1: South

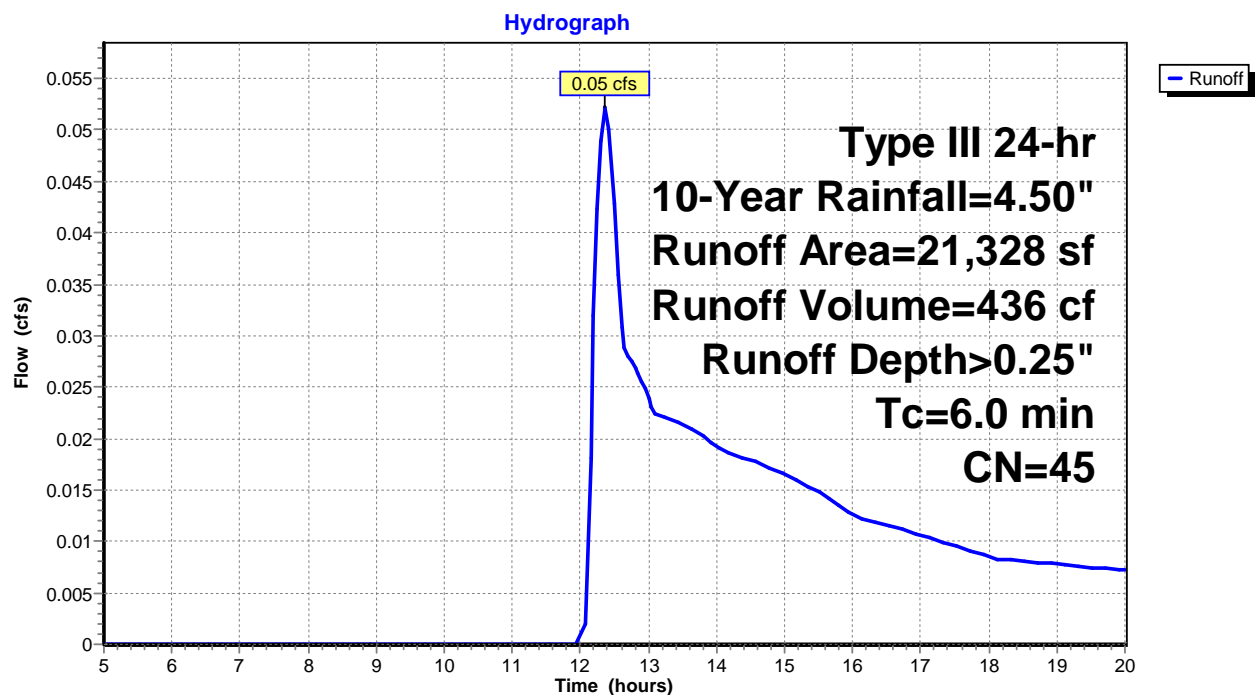
Runoff = 0.05 cfs @ 12.37 hrs, Volume= 436 cf, Depth> 0.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.50"

Area (sf)	CN	Description
9,820	39	>75% Grass cover, Good, HSG A
6,978	30	Woods, Good, HSG A
3,193	72	Dirt roads, HSG A
1,337	98	Paved parking, HSG A
21,328	45	Weighted Average
19,991		93.73% Pervious Area
1,337		6.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment EX-1: South



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Existing Conditions

Type III 24-hr 10-Year Rainfall=4.50"

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Summary for Subcatchment EX-2: Northwest

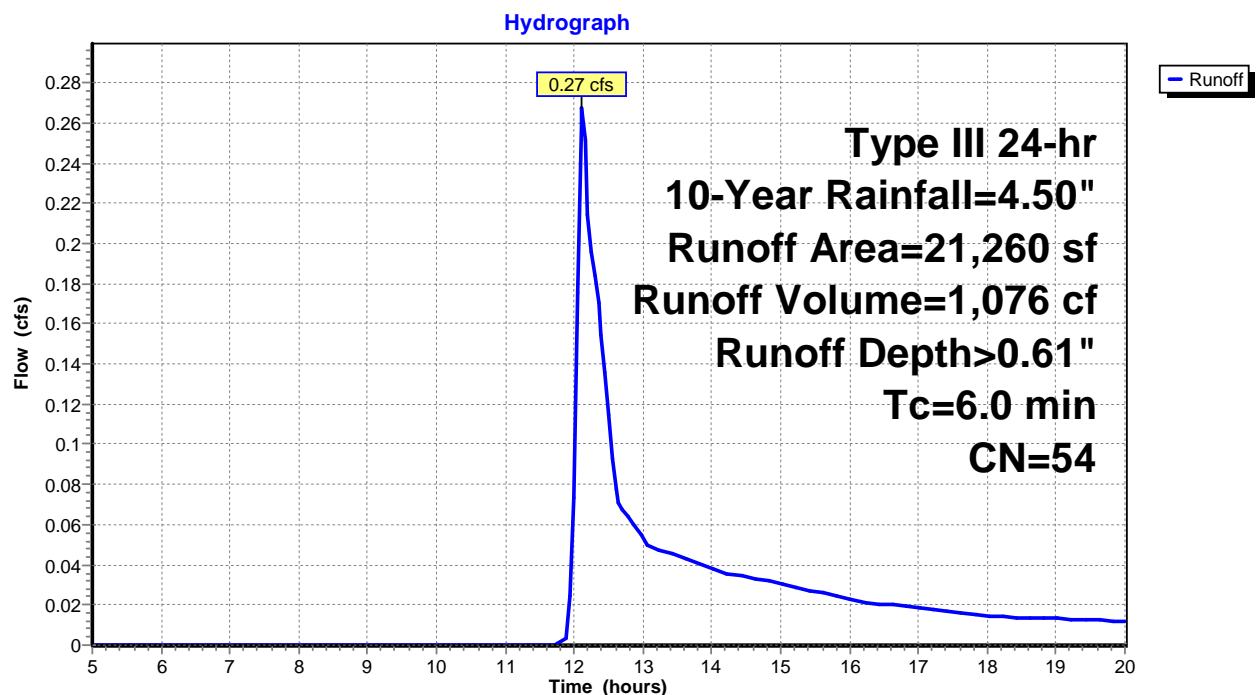
Runoff = 0.27 cfs @ 12.12 hrs, Volume= 1,076 cf, Depth> 0.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.50"

Area (sf)	CN	Description
6,806	39	>75% Grass cover, Good, HSG A
3,818	30	Woods, Good, HSG A
0	72	Dirt roads, HSG A
* 10,636	72	Pervious Pavement
21,260	54	Weighted Average
21,260		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment EX-2: Northwest



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Existing Conditions
Type III 24-hr 10-Year Rainfall=4.50"

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Summary for Subcatchment EX-3: Northeast

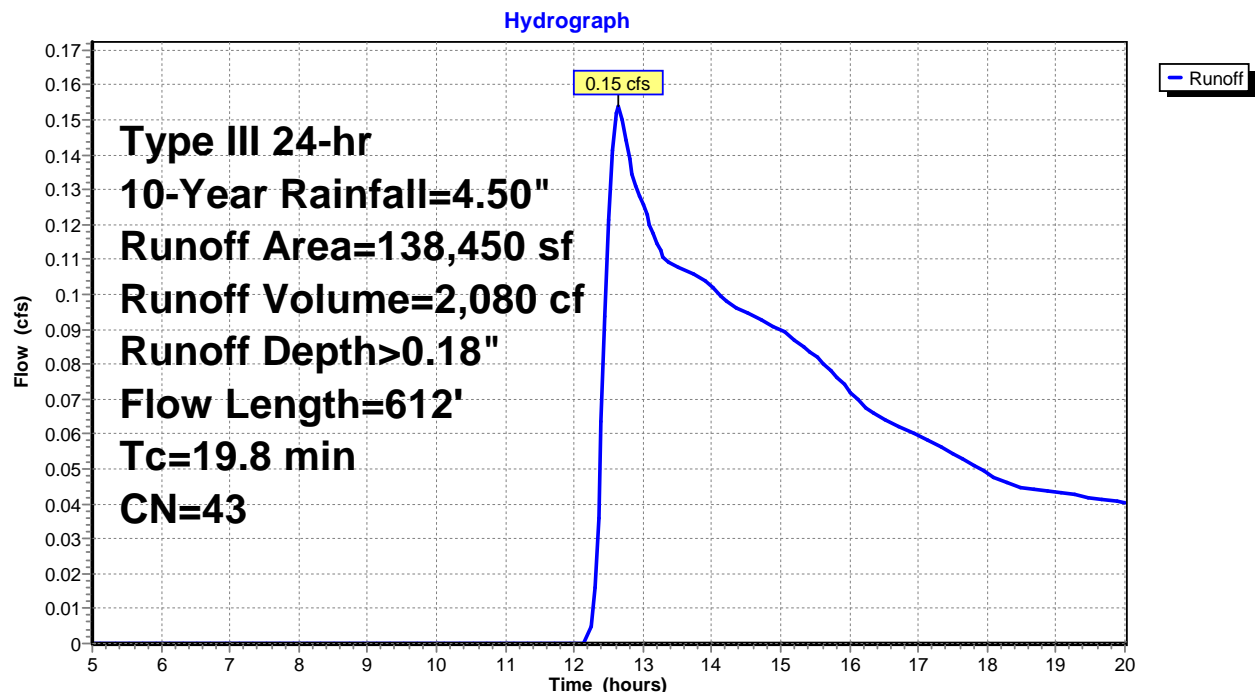
Runoff = 0.15 cfs @ 12.64 hrs, Volume= 2,080 cf, Depth> 0.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.50"

Area (sf)	CN	Description
111,400	39	>75% Grass cover, Good, HSG A
9,195	30	Woods, Good, HSG A
17,526	72	Dirt roads, HSG A
329	98	Paved parking, HSG A
138,450	43	Weighted Average
138,121		99.76% Pervious Area
329		0.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	50	0.0314	0.18		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
15.1	562	0.0079	0.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
19.8	612	Total			

Subcatchment EX-3: Northeast



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Existing Conditions
Type III 24-hr 10-Year Rainfall=4.50"

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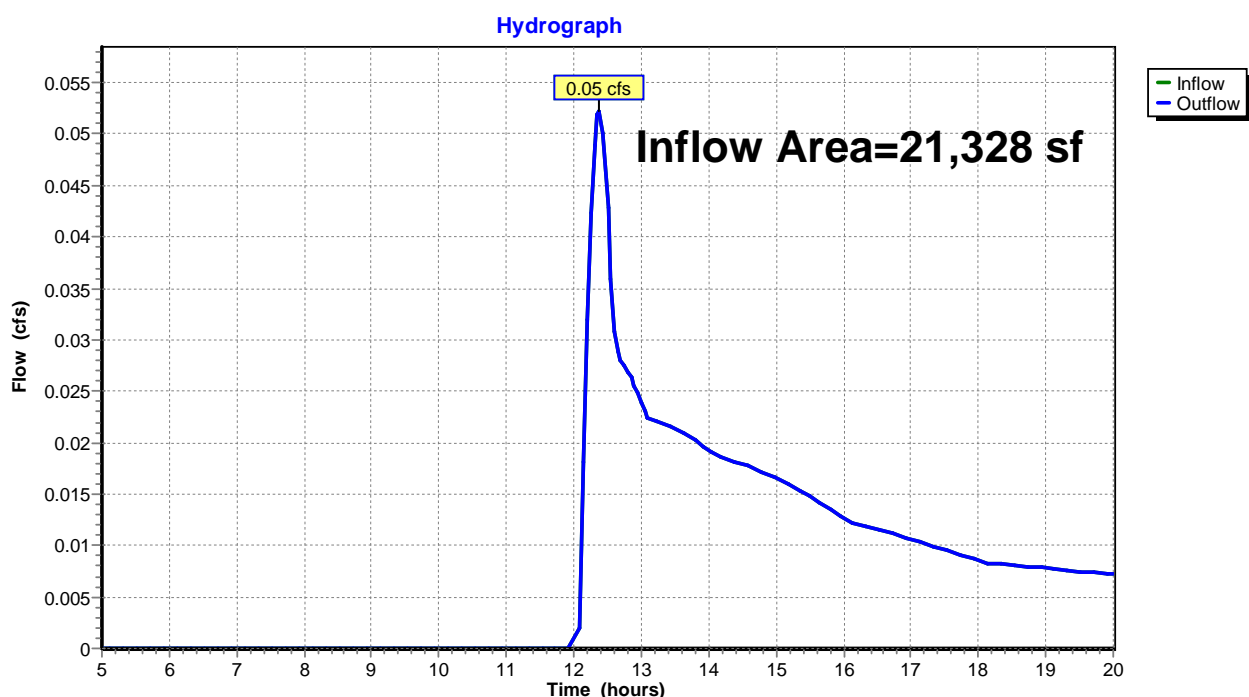
Page 13

Summary for Reach DP-1e: Bikeway

Inflow Area = 21,328 sf, 6.27% Impervious, Inflow Depth > 0.25" for 10-Year event
Inflow = 0.05 cfs @ 12.37 hrs, Volume= 436 cf
Outflow = 0.05 cfs @ 12.37 hrs, Volume= 436 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-1e: Bikeway



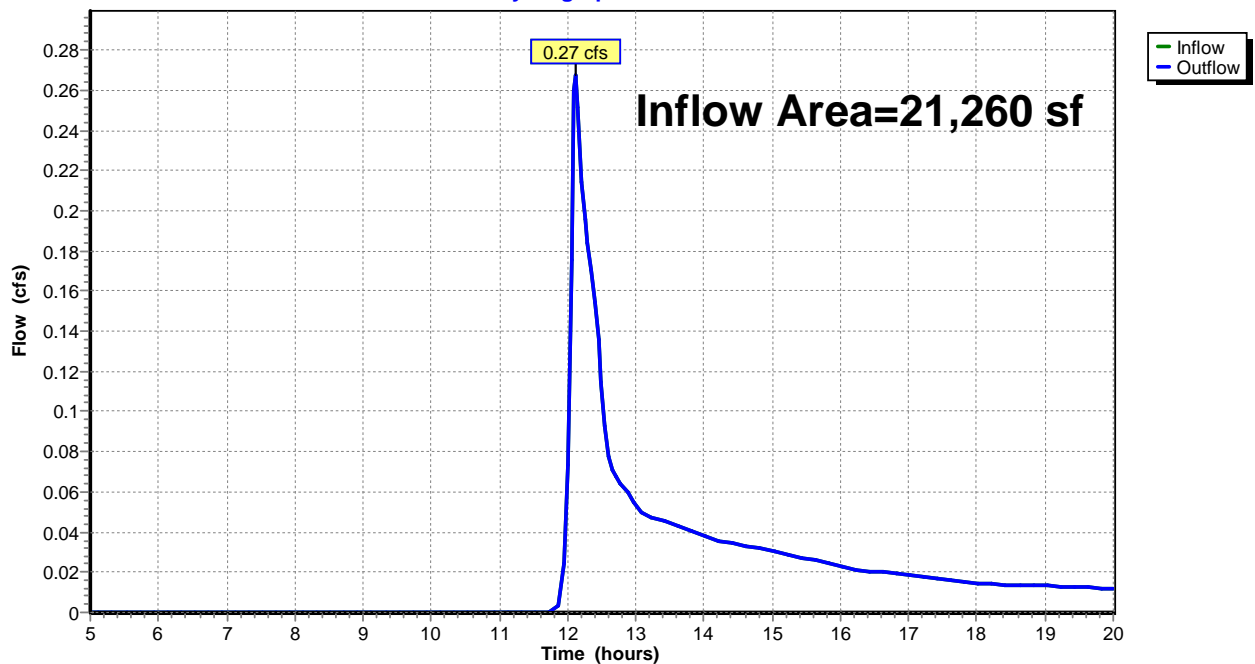
Summary for Reach DP-2e: NW wetland

Inflow Area = 21,260 sf, 0.00% Impervious, Inflow Depth > 0.61" for 10-Year event
Inflow = 0.27 cfs @ 12.12 hrs, Volume= 1,076 cf
Outflow = 0.27 cfs @ 12.12 hrs, Volume= 1,076 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-2e: NW wetland

Hydrograph



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Existing Conditions
Type III 24-hr 10-Year Rainfall=4.50"

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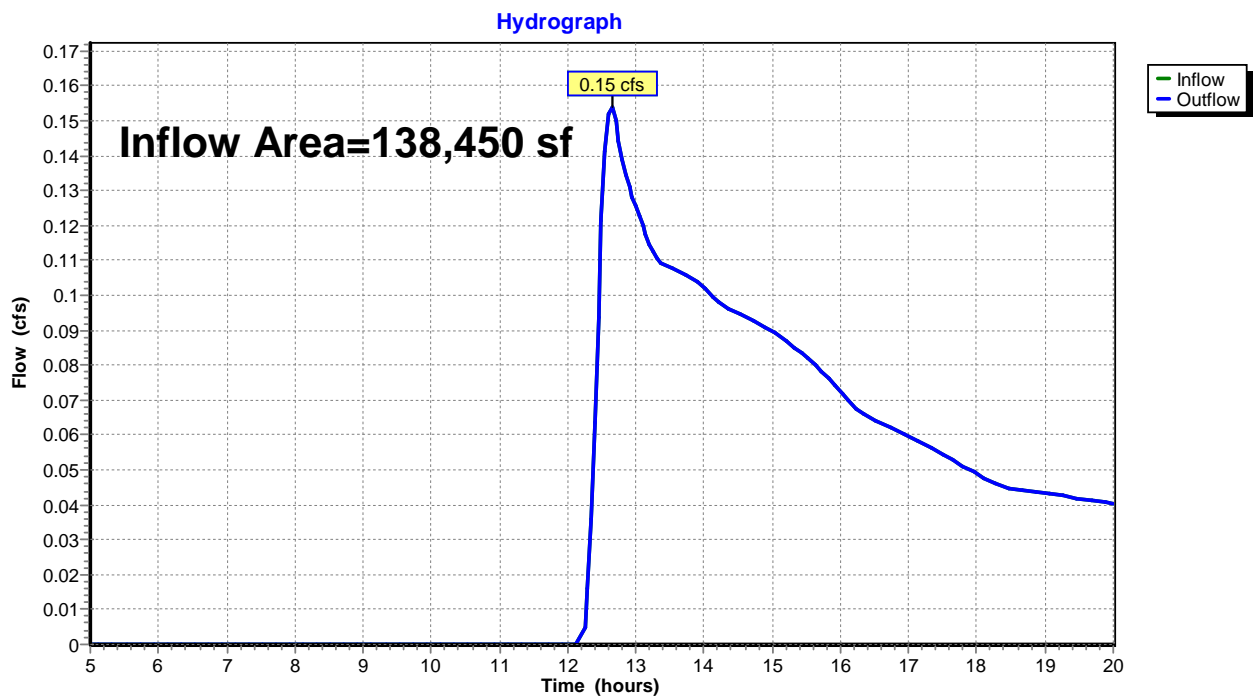
Page 15

Summary for Reach DP-3e: NE Wetland

Inflow Area = 138,450 sf, 0.24% Impervious, Inflow Depth > 0.18" for 10-Year event
Inflow = 0.15 cfs @ 12.64 hrs, Volume= 2,080 cf
Outflow = 0.15 cfs @ 12.64 hrs, Volume= 2,080 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

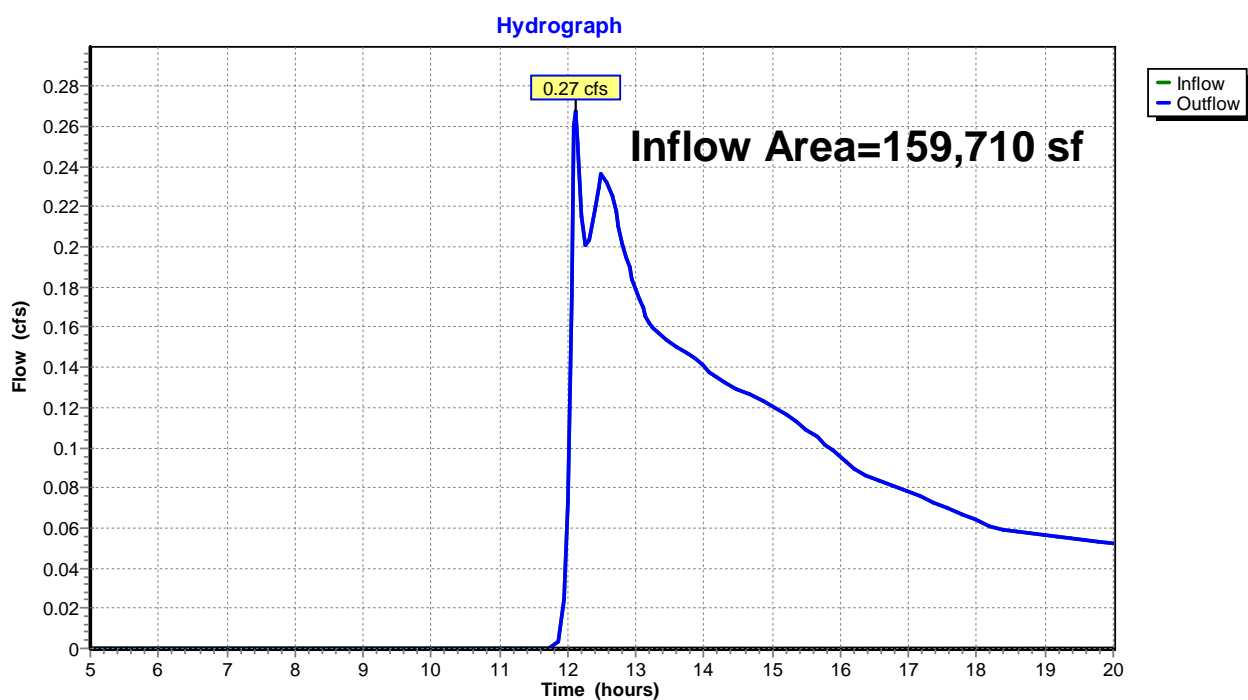
Reach DP-3e: NE Wetland



Summary for Reach DP-4e: Overflow

Inflow Area = 159,710 sf, 0.21% Impervious, Inflow Depth > 0.24" for 10-Year event
Inflow = 0.27 cfs @ 12.12 hrs, Volume= 3,156 cf
Outflow = 0.27 cfs @ 12.12 hrs, Volume= 3,156 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-4e: Overflow

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Type III 24-hr 25-Year Rainfall=5.30"

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Summary for Subcatchment EX-1: South

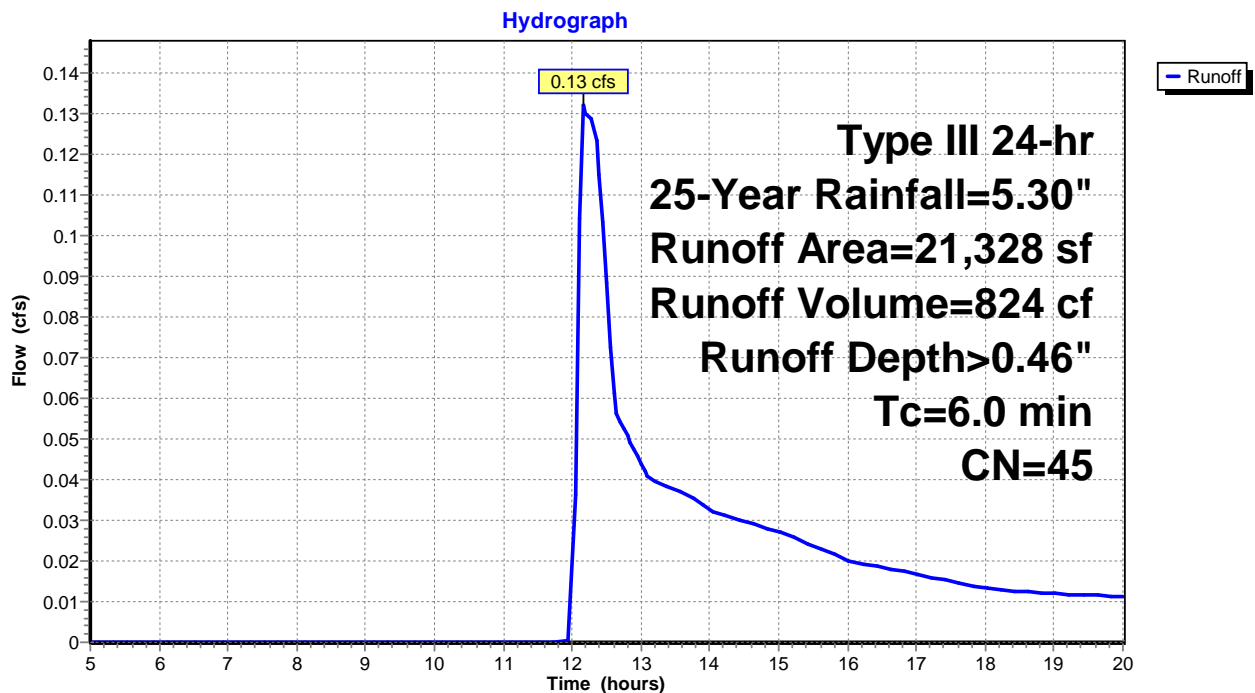
Runoff = 0.13 cfs @ 12.15 hrs, Volume= 824 cf, Depth> 0.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=5.30"

Area (sf)	CN	Description
9,820	39	>75% Grass cover, Good, HSG A
6,978	30	Woods, Good, HSG A
3,193	72	Dirt roads, HSG A
1,337	98	Paved parking, HSG A
21,328	45	Weighted Average
19,991		93.73% Pervious Area
1,337		6.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment EX-1: South



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Type III 24-hr 25-Year Rainfall=5.30"

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Summary for Subcatchment EX-2: Northwest

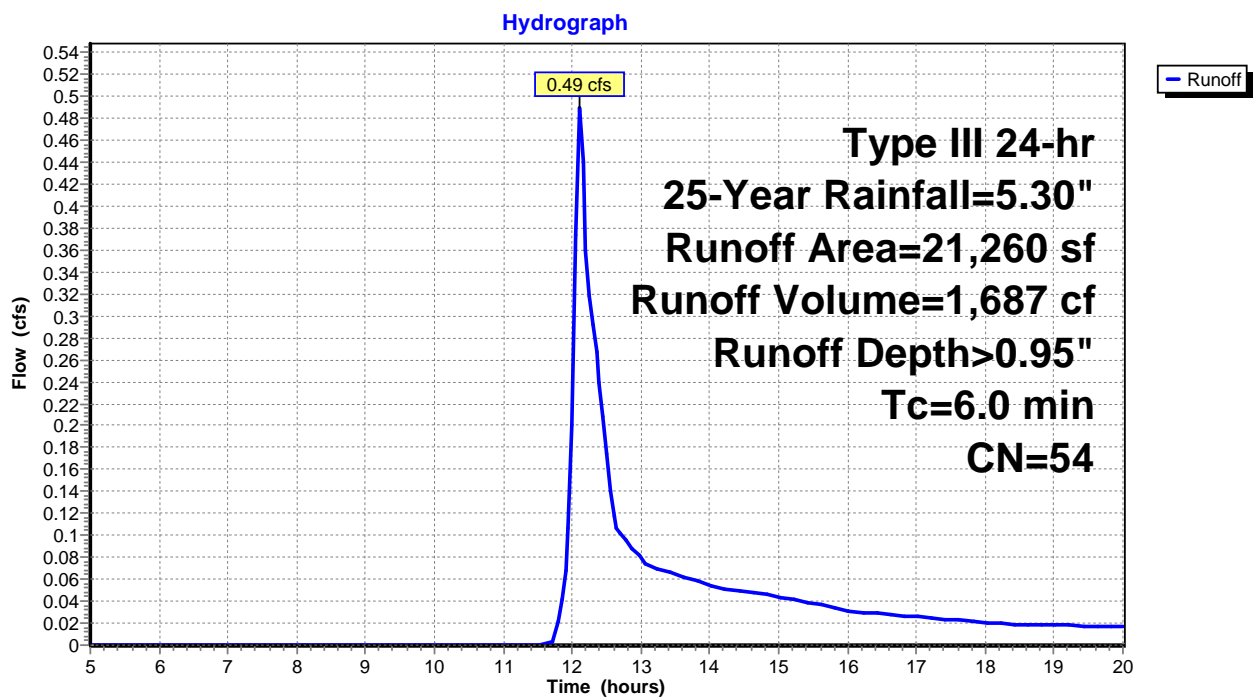
Runoff = 0.49 cfs @ 12.11 hrs, Volume= 1,687 cf, Depth> 0.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=5.30"

Area (sf)	CN	Description
6,806	39	>75% Grass cover, Good, HSG A
3,818	30	Woods, Good, HSG A
0	72	Dirt roads, HSG A
* 10,636	72	Pervious Pavement
21,260	54	Weighted Average
21,260		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment EX-2: Northwest



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Existing Conditions
Type III 24-hr 25-Year Rainfall=5.30"

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Summary for Subcatchment EX-3: Northeast

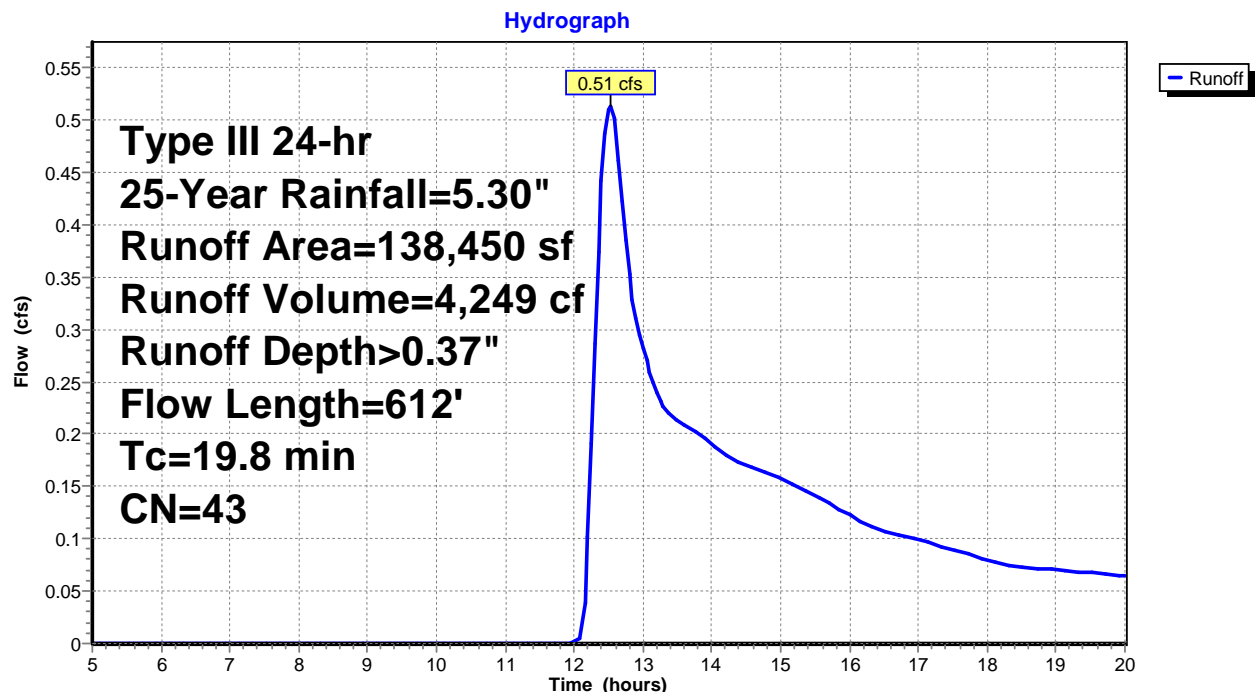
Runoff = 0.51 cfs @ 12.53 hrs, Volume= 4,249 cf, Depth> 0.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=5.30"

Area (sf)	CN	Description
111,400	39	>75% Grass cover, Good, HSG A
9,195	30	Woods, Good, HSG A
17,526	72	Dirt roads, HSG A
329	98	Paved parking, HSG A
138,450	43	Weighted Average
138,121		99.76% Pervious Area
329		0.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	50	0.0314	0.18		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
15.1	562	0.0079	0.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
19.8	612	Total			

Subcatchment EX-3: Northeast



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Type III 24-hr 25-Year Rainfall=5.30"

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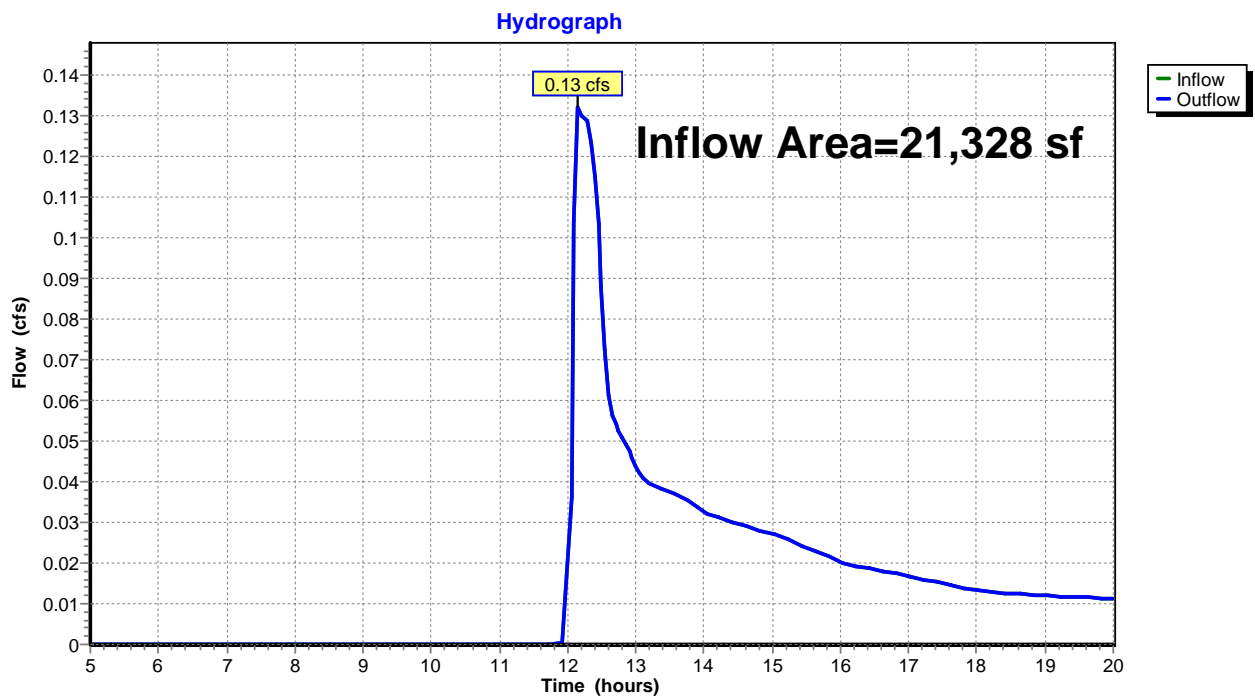
Page 20

Summary for Reach DP-1e: Bikeway

Inflow Area = 21,328 sf, 6.27% Impervious, Inflow Depth > 0.46" for 25-Year event
Inflow = 0.13 cfs @ 12.15 hrs, Volume= 824 cf
Outflow = 0.13 cfs @ 12.15 hrs, Volume= 824 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-1e: Bikeway



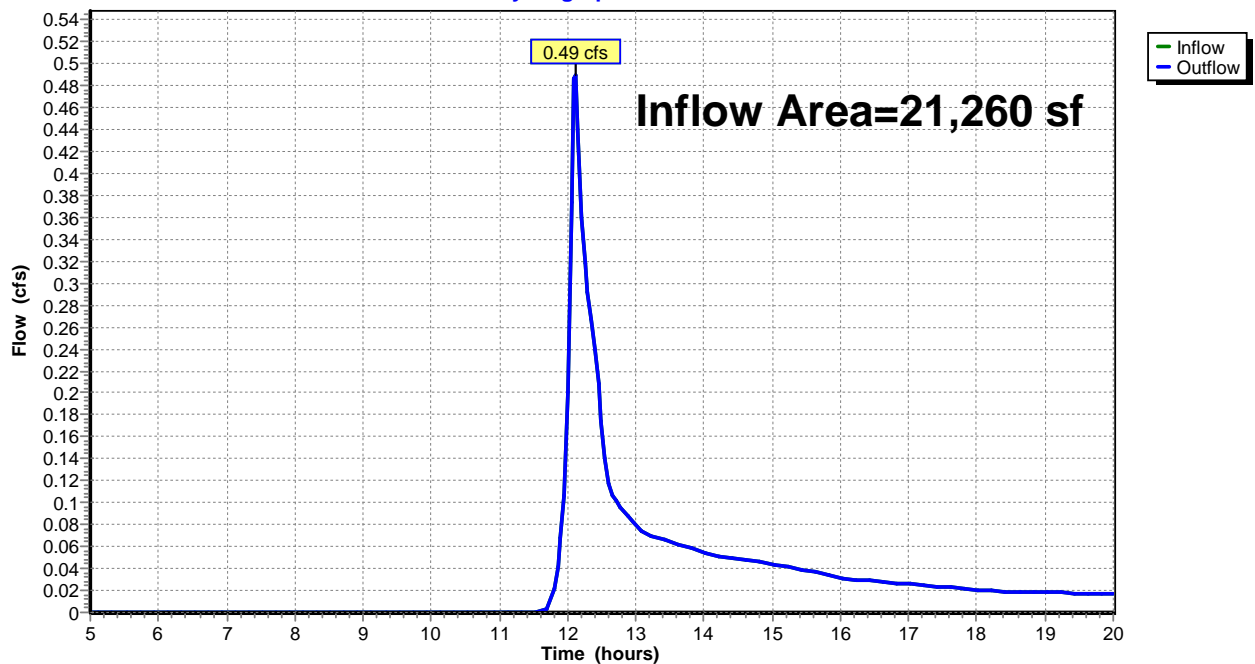
Summary for Reach DP-2e: NW wetland

Inflow Area = 21,260 sf, 0.00% Impervious, Inflow Depth > 0.95" for 25-Year event
Inflow = 0.49 cfs @ 12.11 hrs, Volume= 1,687 cf
Outflow = 0.49 cfs @ 12.11 hrs, Volume= 1,687 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-2e: NW wetland

Hydrograph



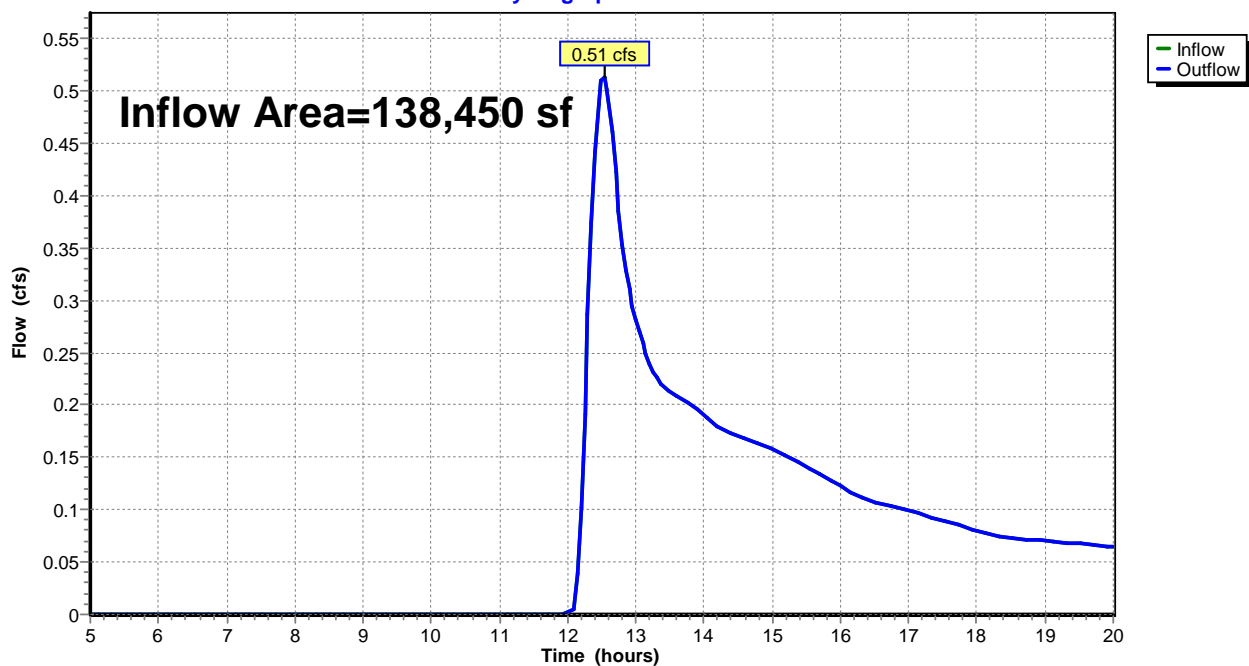
Summary for Reach DP-3e: NE Wetland

Inflow Area = 138,450 sf, 0.24% Impervious, Inflow Depth > 0.37" for 25-Year event
Inflow = 0.51 cfs @ 12.53 hrs, Volume= 4,249 cf
Outflow = 0.51 cfs @ 12.53 hrs, Volume= 4,249 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-3e: NE Wetland

Hydrograph



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Existing Conditions
Type III 24-hr 25-Year Rainfall=5.30"

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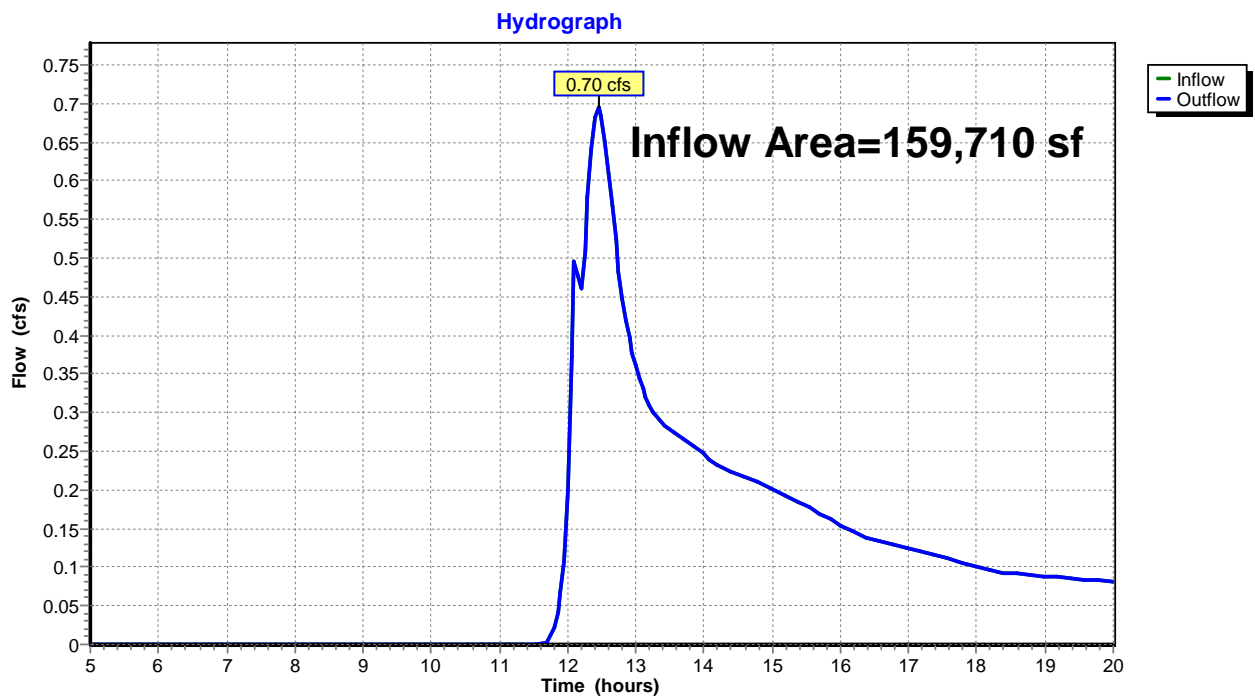
Page 23

Summary for Reach DP-4e: Overflow

Inflow Area = 159,710 sf, 0.21% Impervious, Inflow Depth > 0.45" for 25-Year event
Inflow = 0.70 cfs @ 12.45 hrs, Volume= 5,936 cf
Outflow = 0.70 cfs @ 12.45 hrs, Volume= 5,936 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-4e: Overflow



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Type III 24-hr 100-Year Rainfall=8.90"

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Summary for Subcatchment EX-1: South

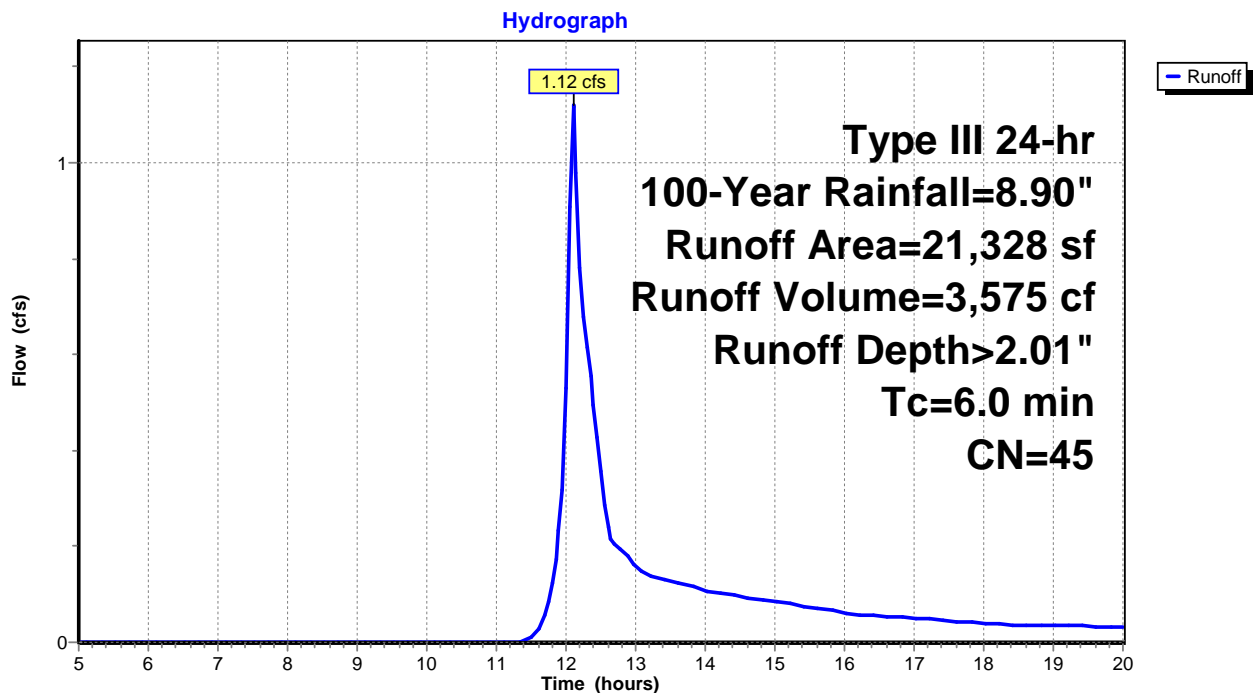
Runoff = 1.12 cfs @ 12.11 hrs, Volume= 3,575 cf, Depth> 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.90"

Area (sf)	CN	Description
9,820	39	>75% Grass cover, Good, HSG A
6,978	30	Woods, Good, HSG A
3,193	72	Dirt roads, HSG A
1,337	98	Paved parking, HSG A
21,328	45	Weighted Average
19,991		93.73% Pervious Area
1,337		6.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment EX-1: South



Hydro Hurd

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Existing Conditions

Type III 24-hr 100-Year Rainfall=8.90"

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Summary for Subcatchment EX-2: Northwest

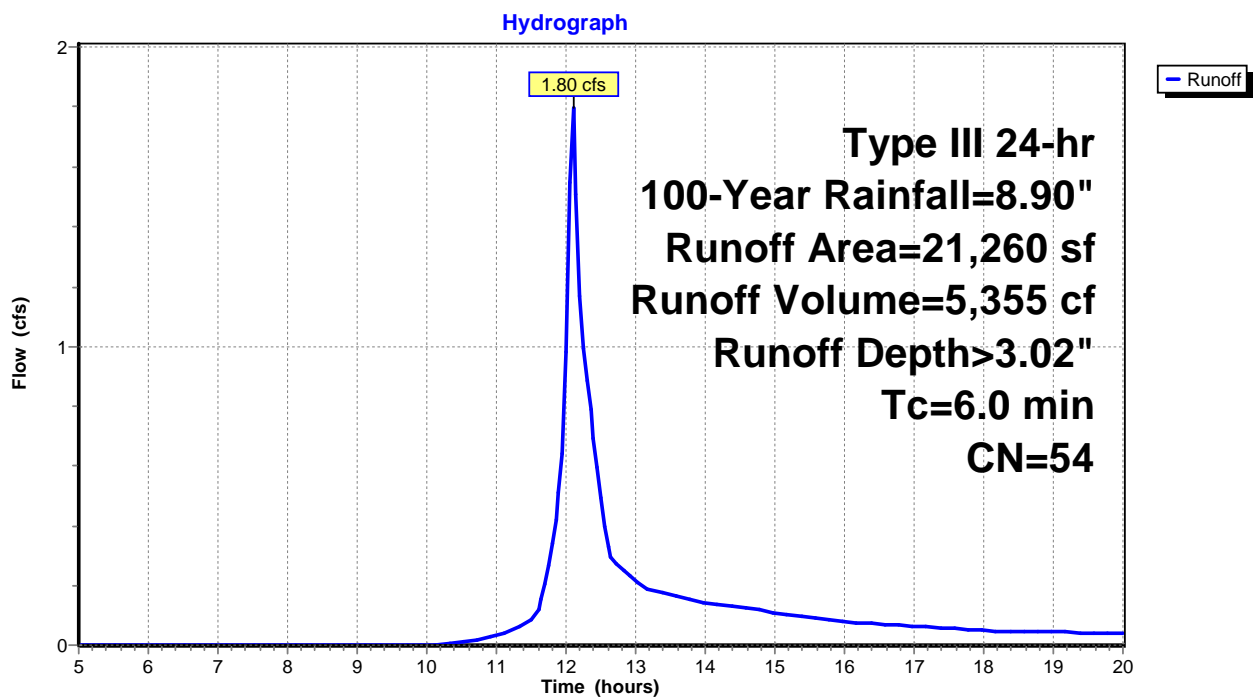
Runoff = 1.80 cfs @ 12.10 hrs, Volume= 5,355 cf, Depth> 3.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.90"

Area (sf)	CN	Description
6,806	39	>75% Grass cover, Good, HSG A
3,818	30	Woods, Good, HSG A
0	72	Dirt roads, HSG A
* 10,636	72	Pervious Pavement
21,260	54	Weighted Average
21,260		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment EX-2: Northwest



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Existing Conditions

Type III 24-hr 100-Year Rainfall=8.90"

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Summary for Subcatchment EX-3: Northeast

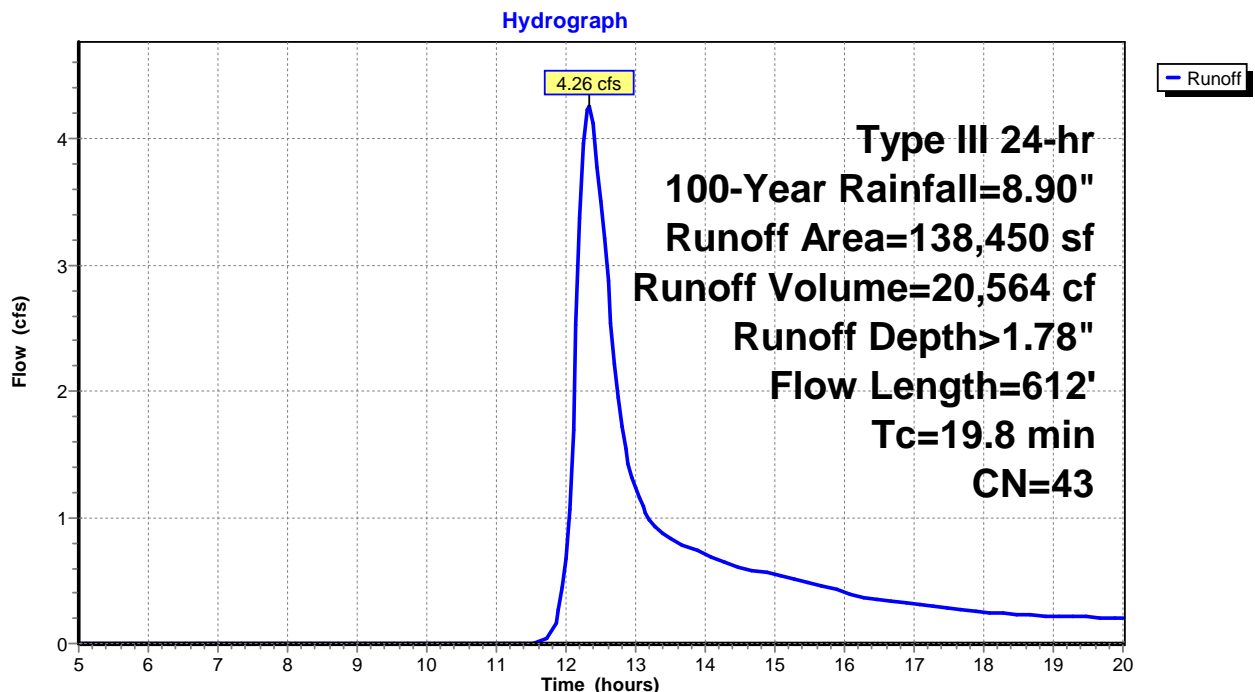
Runoff = 4.26 cfs @ 12.32 hrs, Volume= 20,564 cf, Depth> 1.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.90"

Area (sf)	CN	Description
111,400	39	>75% Grass cover, Good, HSG A
9,195	30	Woods, Good, HSG A
17,526	72	Dirt roads, HSG A
329	98	Paved parking, HSG A
138,450	43	Weighted Average
138,121		99.76% Pervious Area
329		0.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	50	0.0314	0.18		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
15.1	562	0.0079	0.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
19.8	612	Total			

Subcatchment EX-3: Northeast



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Type III 24-hr 100-Year Rainfall=8.90"

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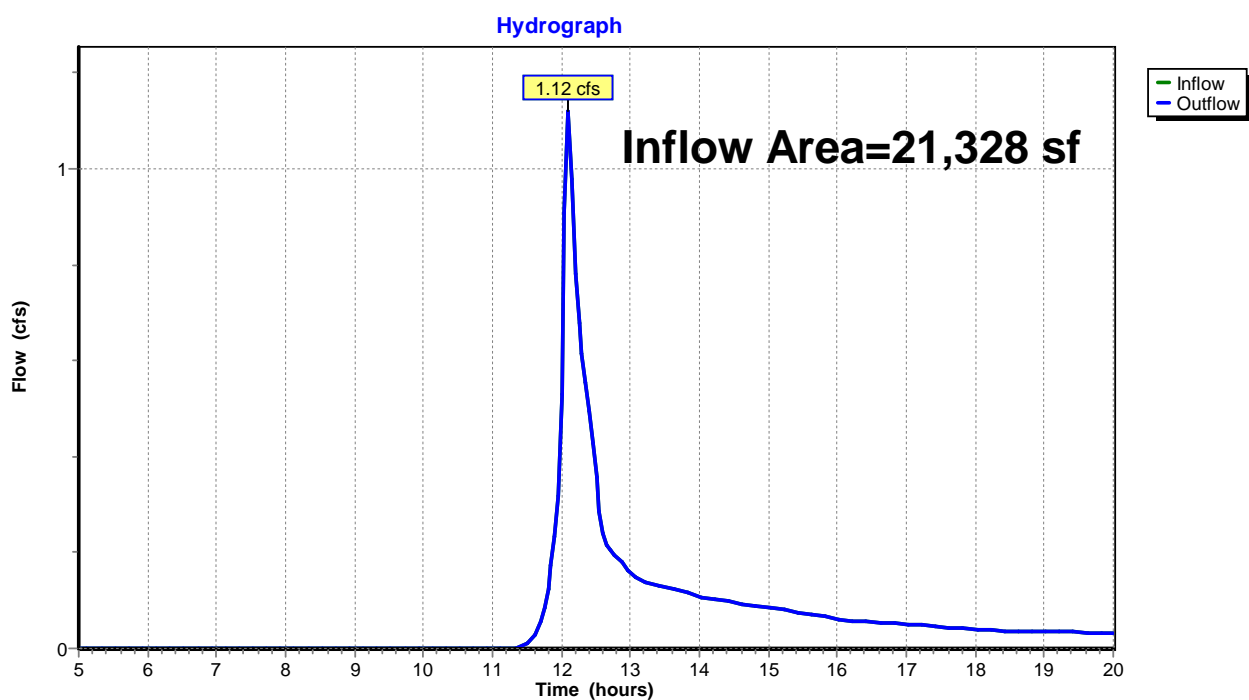
Page 27

Summary for Reach DP-1e: Bikeway

Inflow Area = 21,328 sf, 6.27% Impervious, Inflow Depth > 2.01" for 100-Year event
Inflow = 1.12 cfs @ 12.11 hrs, Volume= 3,575 cf
Outflow = 1.12 cfs @ 12.11 hrs, Volume= 3,575 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

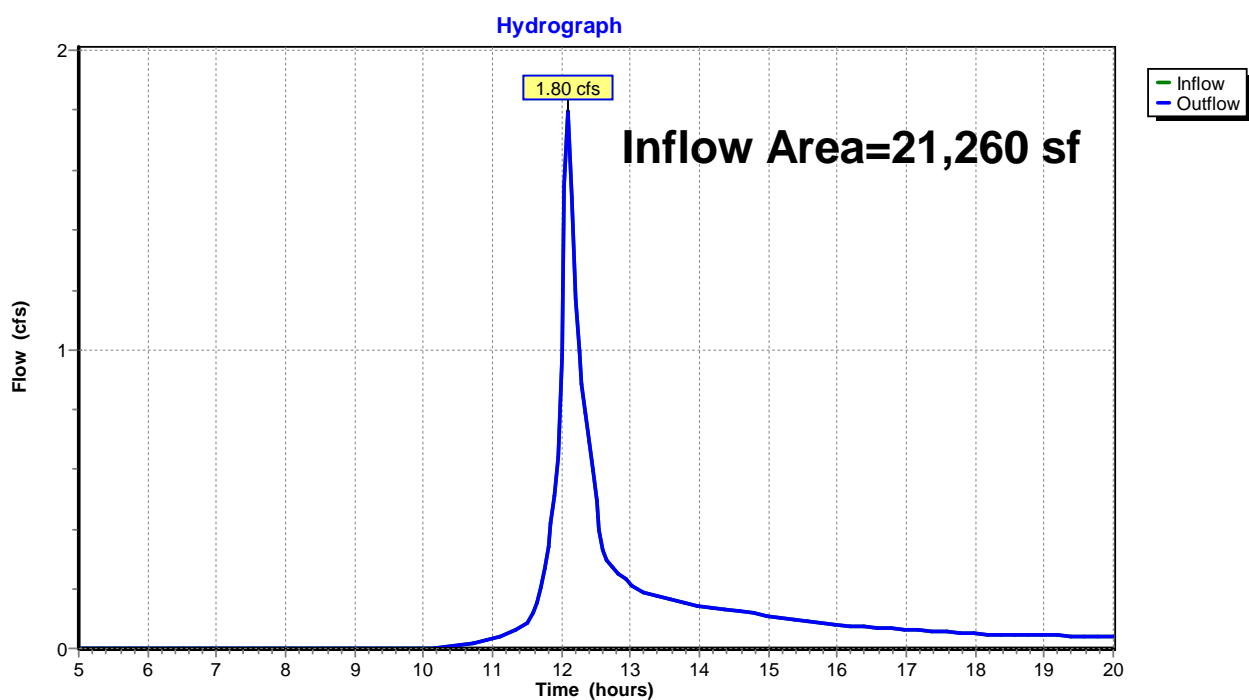
Reach DP-1e: Bikeway



Summary for Reach DP-2e: NW wetland

Inflow Area = 21,260 sf, 0.00% Impervious, Inflow Depth > 3.02" for 100-Year event
Inflow = 1.80 cfs @ 12.10 hrs, Volume= 5,355 cf
Outflow = 1.80 cfs @ 12.10 hrs, Volume= 5,355 cf, Atten= 0%, Lag= 0.0 min

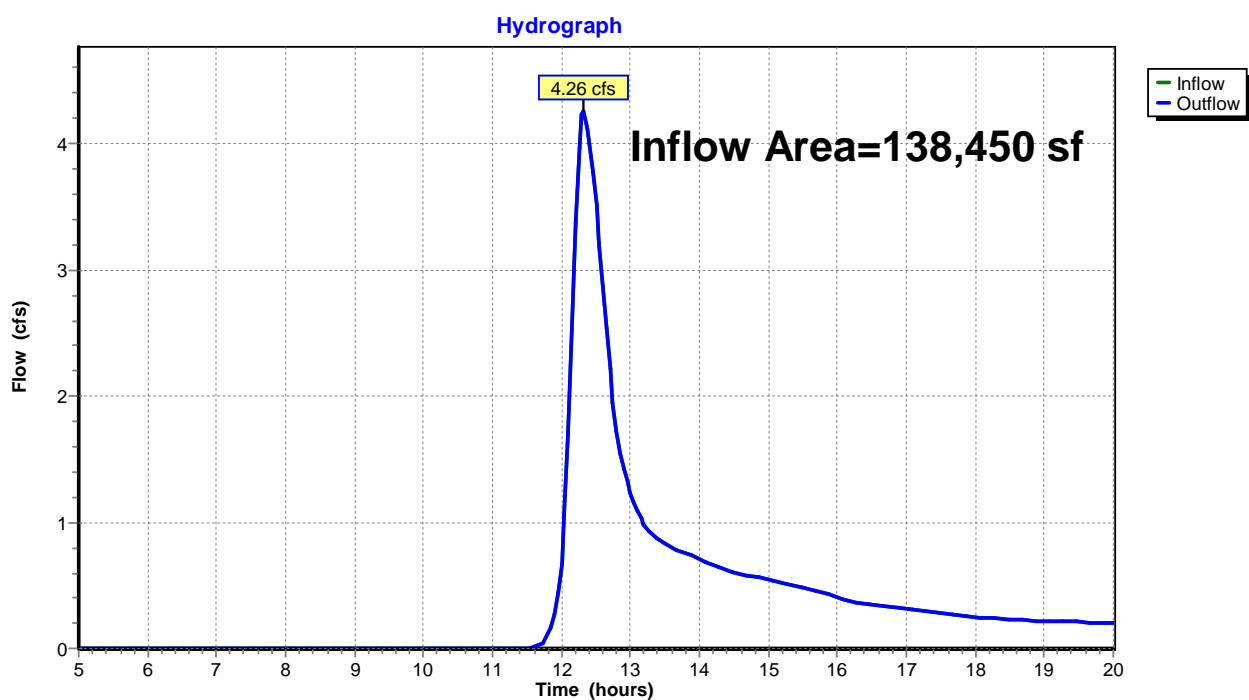
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-2e: NW wetland

Summary for Reach DP-3e: NE Wetland

Inflow Area = 138,450 sf, 0.24% Impervious, Inflow Depth > 1.78" for 100-Year event
Inflow = 4.26 cfs @ 12.32 hrs, Volume= 20,564 cf
Outflow = 4.26 cfs @ 12.32 hrs, Volume= 20,564 cf, Atten= 0%, Lag= 0.0 min

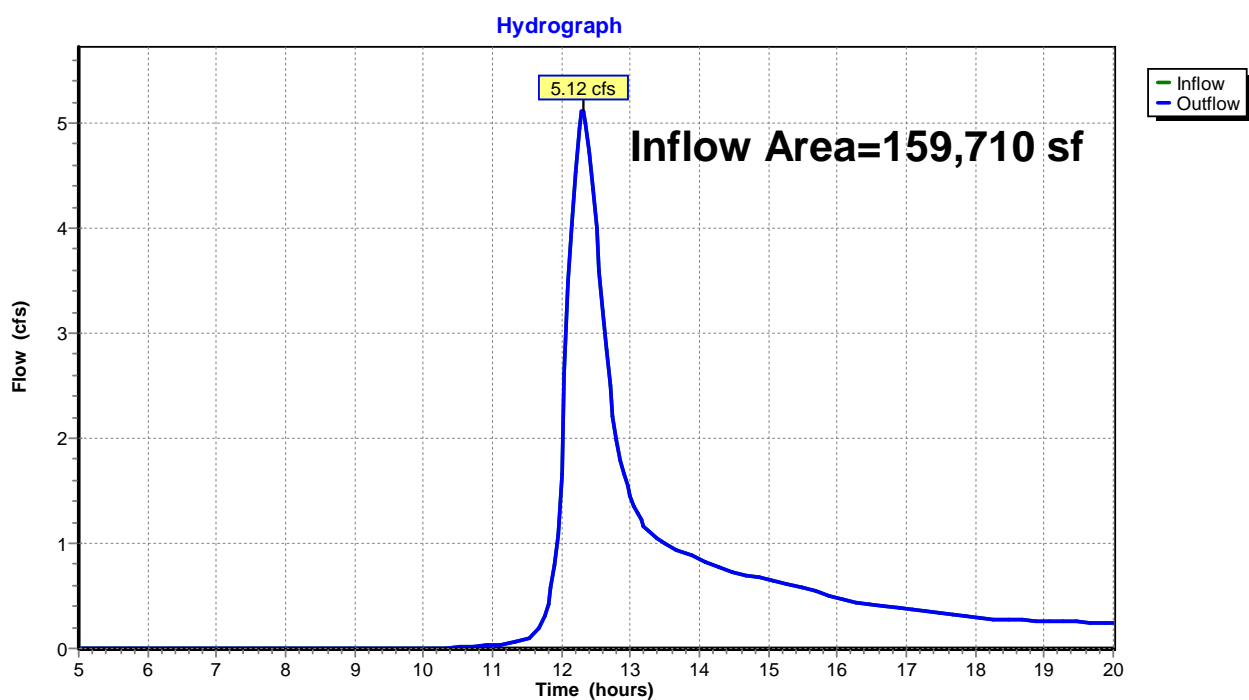
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-3e: NE Wetland

Summary for Reach DP-4e: Overflow

Inflow Area = 159,710 sf, 0.21% Impervious, Inflow Depth > 1.95" for 100-Year event
Inflow = 5.12 cfs @ 12.30 hrs, Volume= 25,919 cf
Outflow = 5.12 cfs @ 12.30 hrs, Volume= 25,919 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-4e: Overflow

LEGEND:

WATERSHED BOUNDARY

A B TIME OF CONCENTRATION (SHEET FLOW)

EX-2 SUBCATCHMENT

DP-1 DESIGN POINT



LANDSCAPE ARCHITECT -
PRIME CONSULTANTS
Stantec Planning and
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226 Causeway Street, 6th Floor
Boston, MA 02114 U.S.A.
Tel. 617.523.8103
Fax. 617.523.4333
www.stantec.com

IRRIGATION DESIGNER
Irrigation Consulting
20 Merritt Parkway - 2nd Floor
Nashua, NH 03062

CLIENT/OWNER
Town of Arlington
Parks and Recreation
422 Summer St.
Arlington, MA 02474

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NOTICE OF INTENT SUBMISSION			
Issued	By	JX	01.08.22
	Appd.		MM/DD/YY

File Name:	Dwn.	Chgd.	Dgn.	MM/DD/YY
Permit-Seal				

Client/Project
TOWN OF ARLINGTON

HURD FIELD RENOVATIONS

Arlington, MA

Title

PROPOSED CONDITIONS

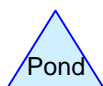
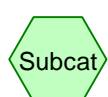
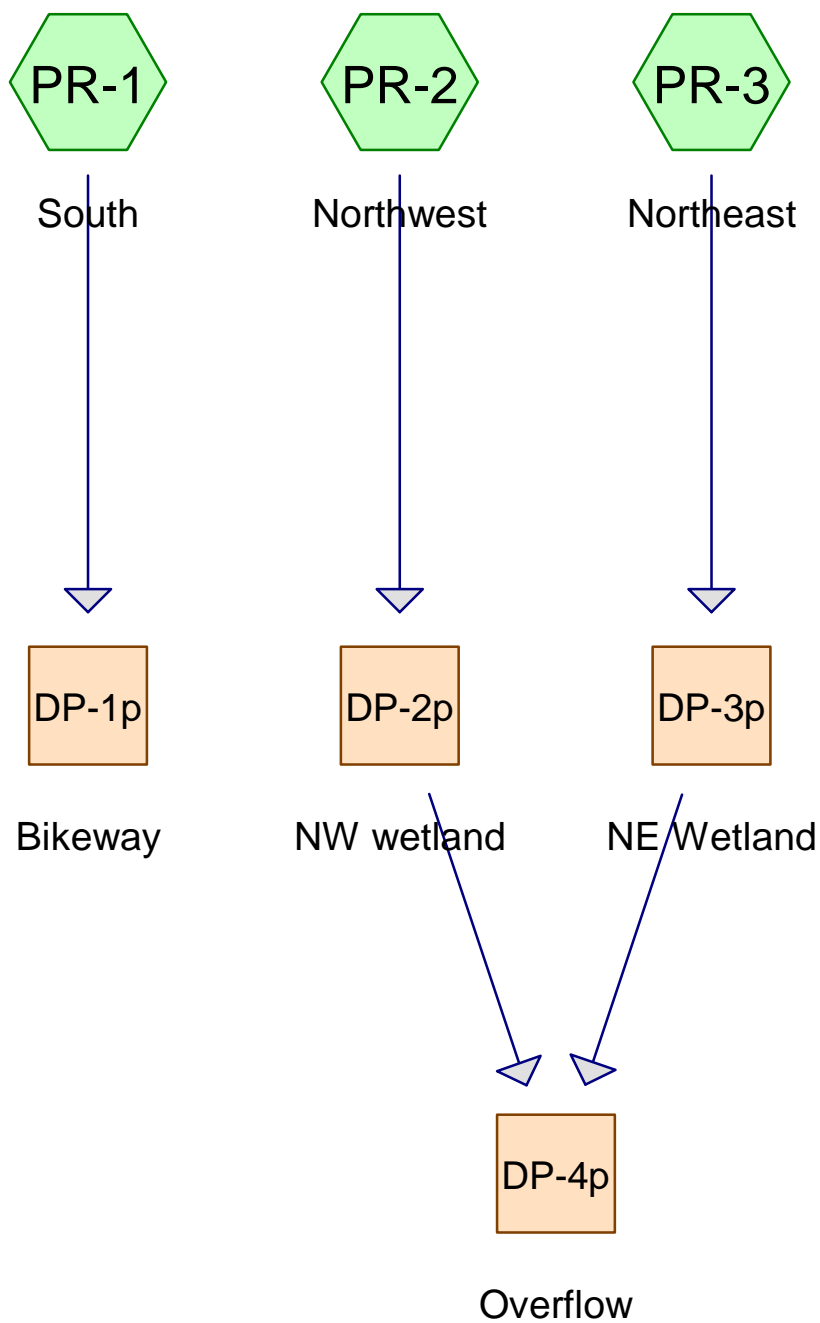
Project No.	Scale
210801935	
Sheet	Drawing No.

of

FIG-2

CONTACT DIG SAFE:
UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE COMPILED FROM PLANS AND FIELD SURVEY. UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY. DIG SAFE AND/OR THE OTHER RESPECTIVE UTILITY COMPANIES SHALL BE CONTACTED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS. PHONE DIG SAFE 811.

PROPOSED



Routing Diagram for Hydro_Hurd
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Hydro_Hurd

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Page 2

Area Listing (selected nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
126,365	39	>75% Grass cover, Good, HSG A (PR-1, PR-2, PR-3)
10,574	72	Dirt roads, HSG A (PR-1, PR-3)
23,899	72	Pervious Pavement (PR-1, PR-2, PR-3)
208	98	Roofs, HSG A (PR-2)
19,991	30	Woods, Good, HSG A (PR-1, PR-2, PR-3)

Hydro Hurd

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Type III 24-hr 2-Year Rainfall=3.10"

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Summary for Subcatchment PR-1: South

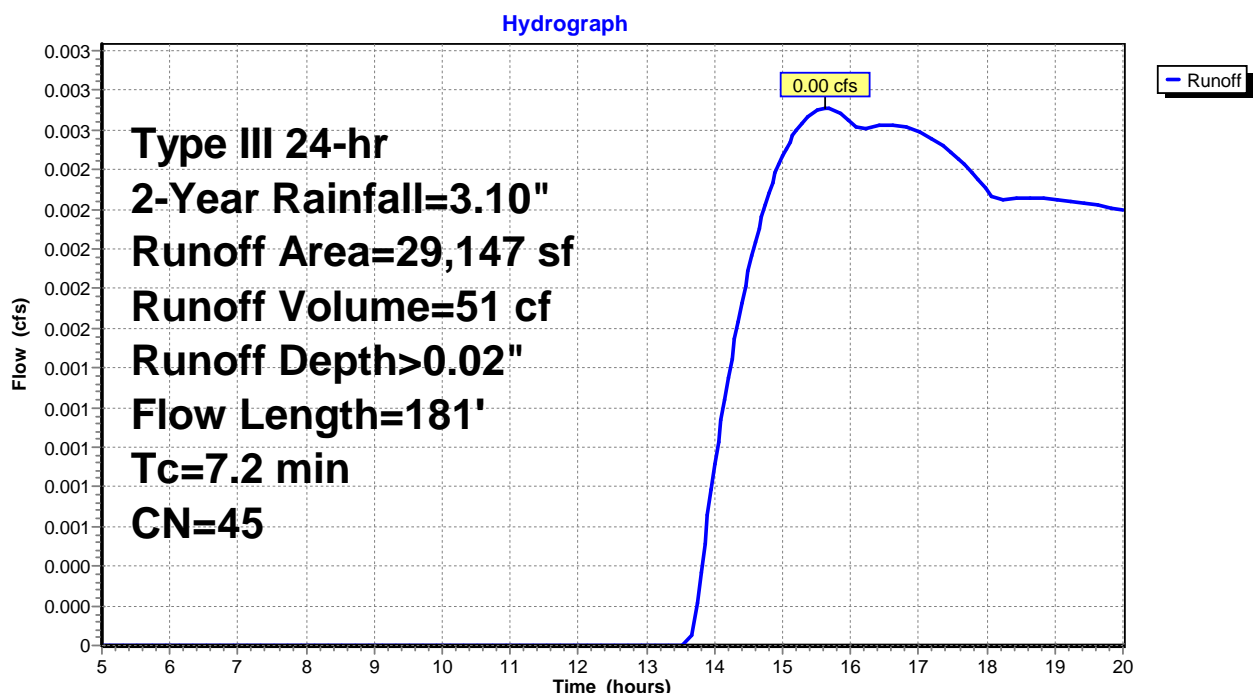
Runoff = 0.00 cfs @ 15.63 hrs, Volume= 51 cf, Depth> 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.10"

Area (sf)	CN	Description
14,555	39	>75% Grass cover, Good, HSG A
6,978	30	Woods, Good, HSG A
2,145	72	Dirt roads, HSG A
* 5,469	72	Pervious Pavement
29,147	45	Weighted Average
29,147		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	50	0.0270	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
1.0	63	0.0215	1.03		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	14	0.0215	2.98		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.4	24	0.0215	1.03		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	30	0.0215	0.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
7.2	181	Total			

Subcatchment PR-1: South



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Type III 24-hr 2-Year Rainfall=3.10"

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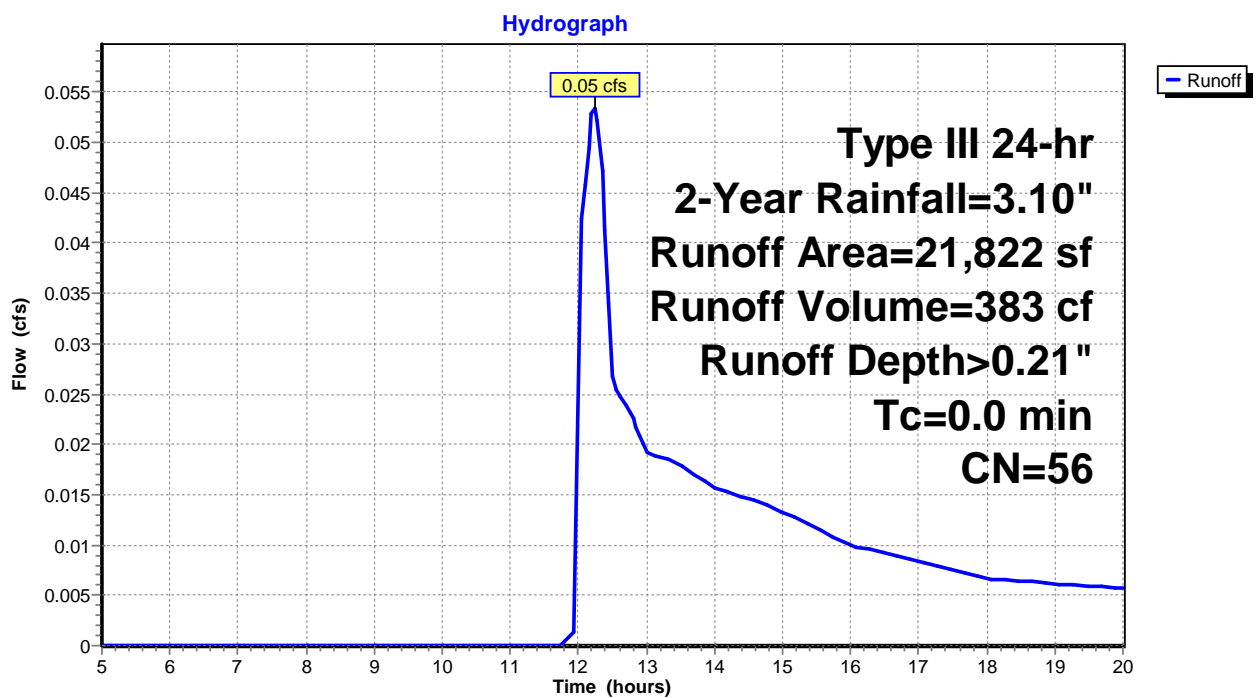
Summary for Subcatchment PR-2: Northwest

Runoff = 0.05 cfs @ 12.23 hrs, Volume= 383 cf, Depth> 0.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.10"

Area (sf)	CN	Description
6,103	39	>75% Grass cover, Good, HSG A
3,818	30	Woods, Good, HSG A
0	72	Dirt roads, HSG A
* 11,693	72	Pervious Pavement
208	98	Roofs, HSG A
<hr/>		
21,822	56	Weighted Average
21,614		99.05% Pervious Area
208		0.95% Impervious Area

Subcatchment PR-2: Northwest



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Type III 24-hr 2-Year Rainfall=3.10"

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Summary for Subcatchment PR-3: Northeast

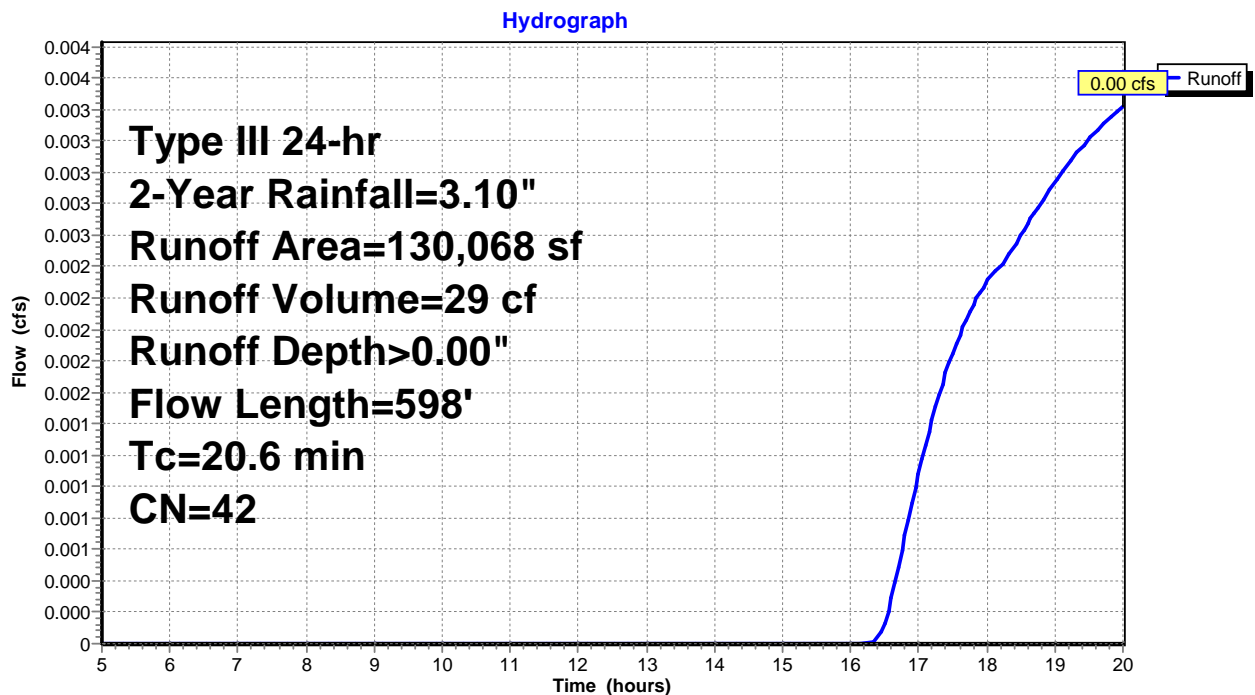
Runoff = 0.00 cfs @ 20.00 hrs, Volume= 29 cf, Depth> 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.10"

Area (sf)	CN	Description
105,707	39	>75% Grass cover, Good, HSG A
9,195	30	Woods, Good, HSG A
8,429	72	Dirt roads, HSG A
* 6,737	72	Pervious Pavement
130,068	42	Weighted Average
130,068		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.9	50	0.0120	0.12		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
0.0	6	0.0167	2.08		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
13.7	542	0.0089	0.66		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
20.6	598	Total			

Subcatchment PR-3: Northeast



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Type III 24-hr 2-Year Rainfall=3.10"

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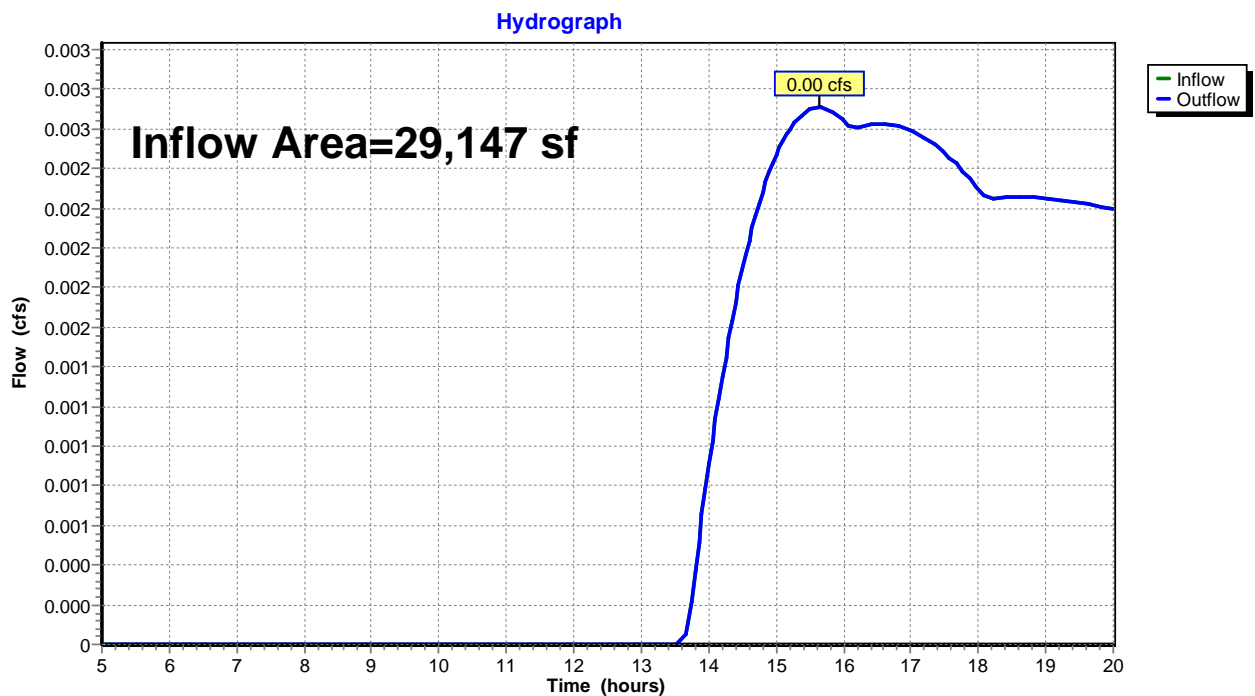
Page 6

Summary for Reach DP-1p: Bikeway

Inflow Area = 29,147 sf, 0.00% Impervious, Inflow Depth > 0.02" for 2-Year event
Inflow = 0.00 cfs @ 15.63 hrs, Volume= 51 cf
Outflow = 0.00 cfs @ 15.63 hrs, Volume= 51 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-1p: Bikeway



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Type III 24-hr 2-Year Rainfall=3.10"

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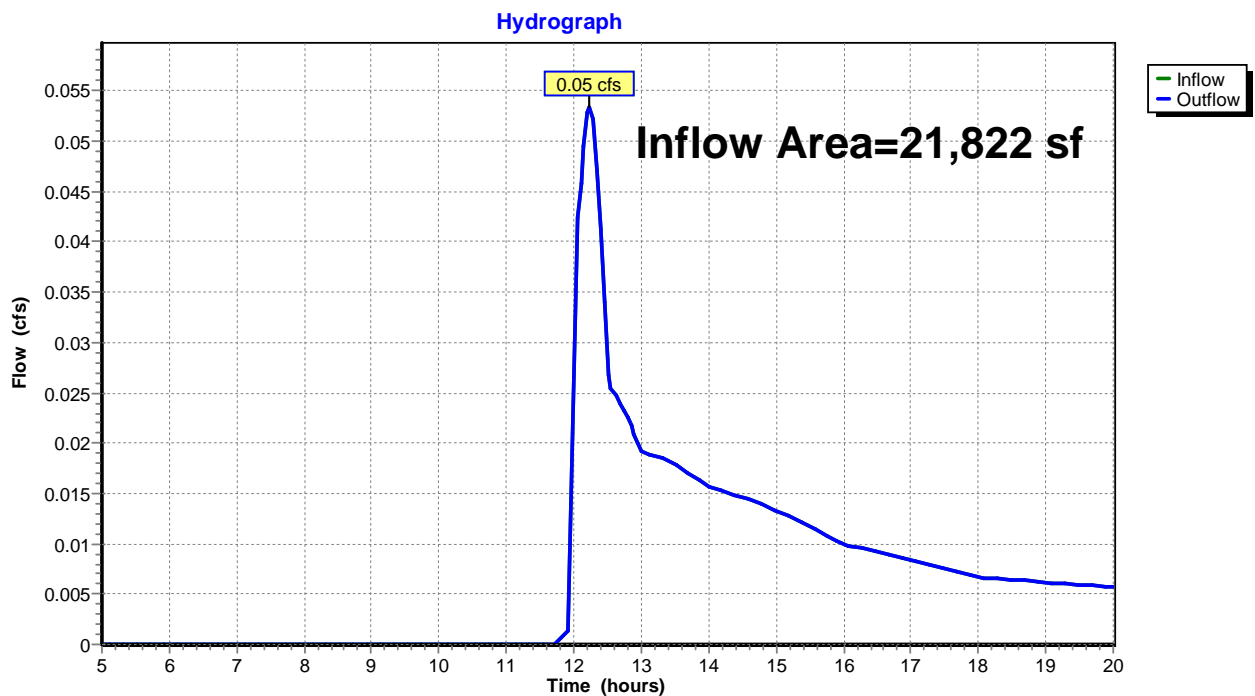
Page 7

Summary for Reach DP-2p: NW wetland

Inflow Area = 21,822 sf, 0.95% Impervious, Inflow Depth > 0.21" for 2-Year event
Inflow = 0.05 cfs @ 12.23 hrs, Volume= 383 cf
Outflow = 0.05 cfs @ 12.23 hrs, Volume= 383 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-2p: NW wetland



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Type III 24-hr 2-Year Rainfall=3.10"

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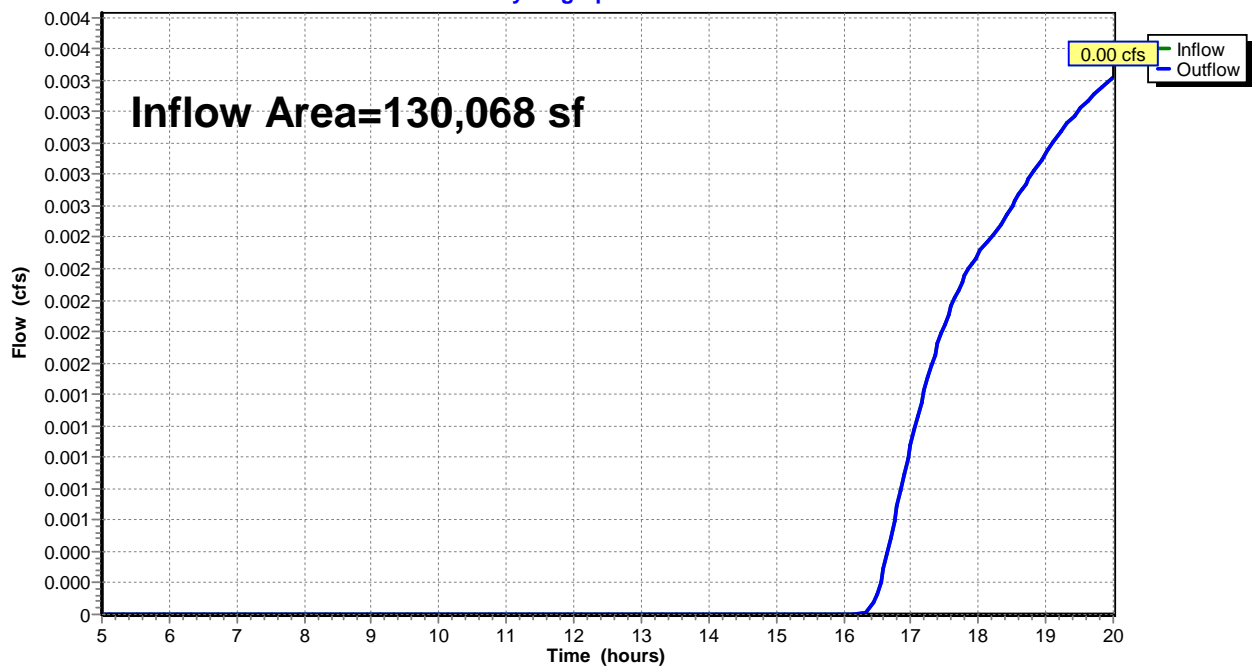
Summary for Reach DP-3p: NE Wetland

Inflow Area = 130,068 sf, 0.00% Impervious, Inflow Depth > 0.00" for 2-Year event
Inflow = 0.00 cfs @ 20.00 hrs, Volume= 29 cf
Outflow = 0.00 cfs @ 20.00 hrs, Volume= 29 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-3p: NE Wetland

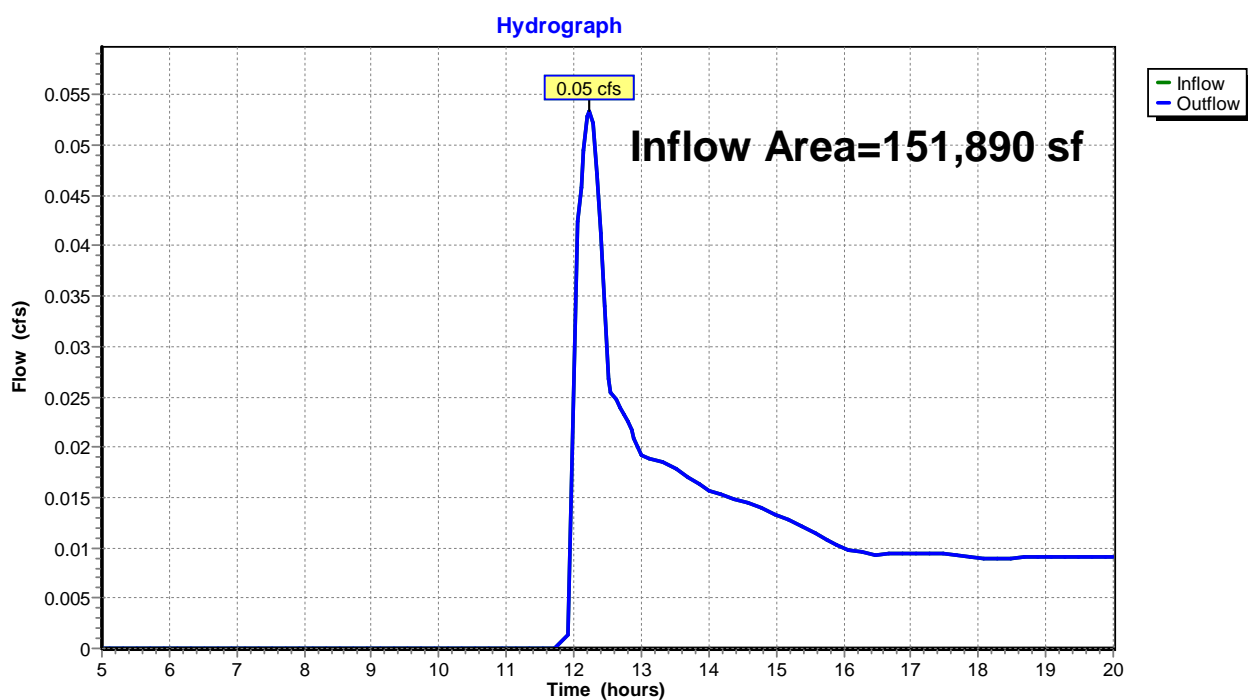
Hydrograph



Summary for Reach DP-4p: Overflow

Inflow Area = 151,890 sf, 0.14% Impervious, Inflow Depth > 0.03" for 2-Year event
Inflow = 0.05 cfs @ 12.23 hrs, Volume= 412 cf
Outflow = 0.05 cfs @ 12.23 hrs, Volume= 412 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-4p: Overflow

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Type III 24-hr 10-Year Rainfall=4.50"

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Summary for Subcatchment PR-1: South

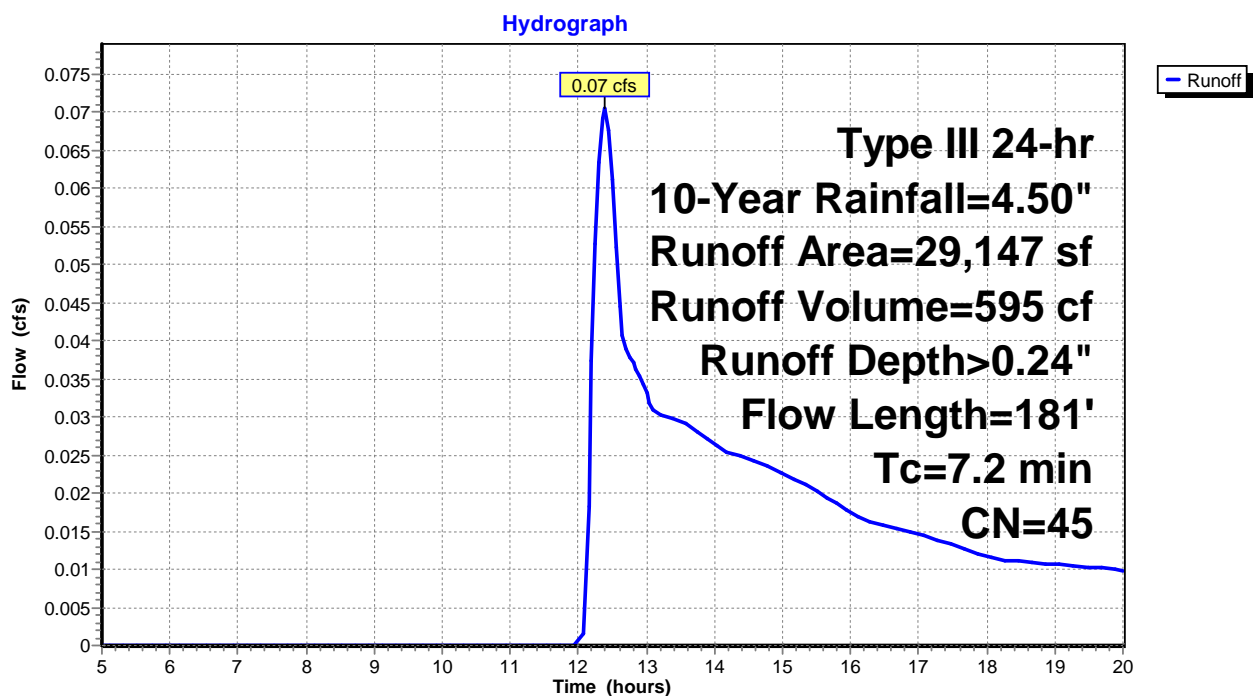
Runoff = 0.07 cfs @ 12.39 hrs, Volume= 595 cf, Depth> 0.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.50"

Area (sf)	CN	Description
14,555	39	>75% Grass cover, Good, HSG A
6,978	30	Woods, Good, HSG A
2,145	72	Dirt roads, HSG A
* 5,469	72	Pervious Pavement
29,147	45	Weighted Average
29,147		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	50	0.0270	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
1.0	63	0.0215	1.03		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	14	0.0215	2.98		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.4	24	0.0215	1.03		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	30	0.0215	0.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
7.2	181	Total			

Subcatchment PR-1: South



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Type III 24-hr 10-Year Rainfall=4.50"

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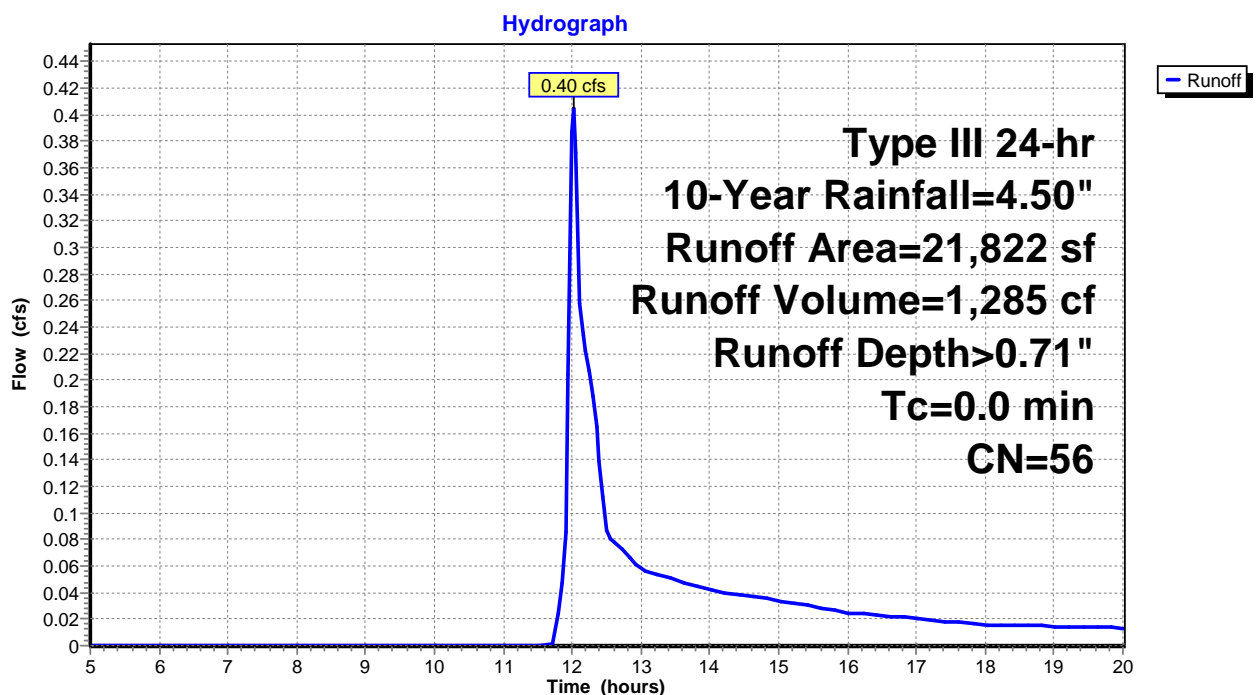
Summary for Subcatchment PR-2: Northwest

Runoff = 0.40 cfs @ 12.02 hrs, Volume= 1,285 cf, Depth> 0.71"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.50"

Area (sf)	CN	Description
6,103	39	>75% Grass cover, Good, HSG A
3,818	30	Woods, Good, HSG A
0	72	Dirt roads, HSG A
* 11,693	72	Pervious Pavement
208	98	Roofs, HSG A
<hr/>		
21,822	56	Weighted Average
21,614		99.05% Pervious Area
208		0.95% Impervious Area

Subcatchment PR-2: Northwest



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Type III 24-hr 10-Year Rainfall=4.50"

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Summary for Subcatchment PR-3: Northeast

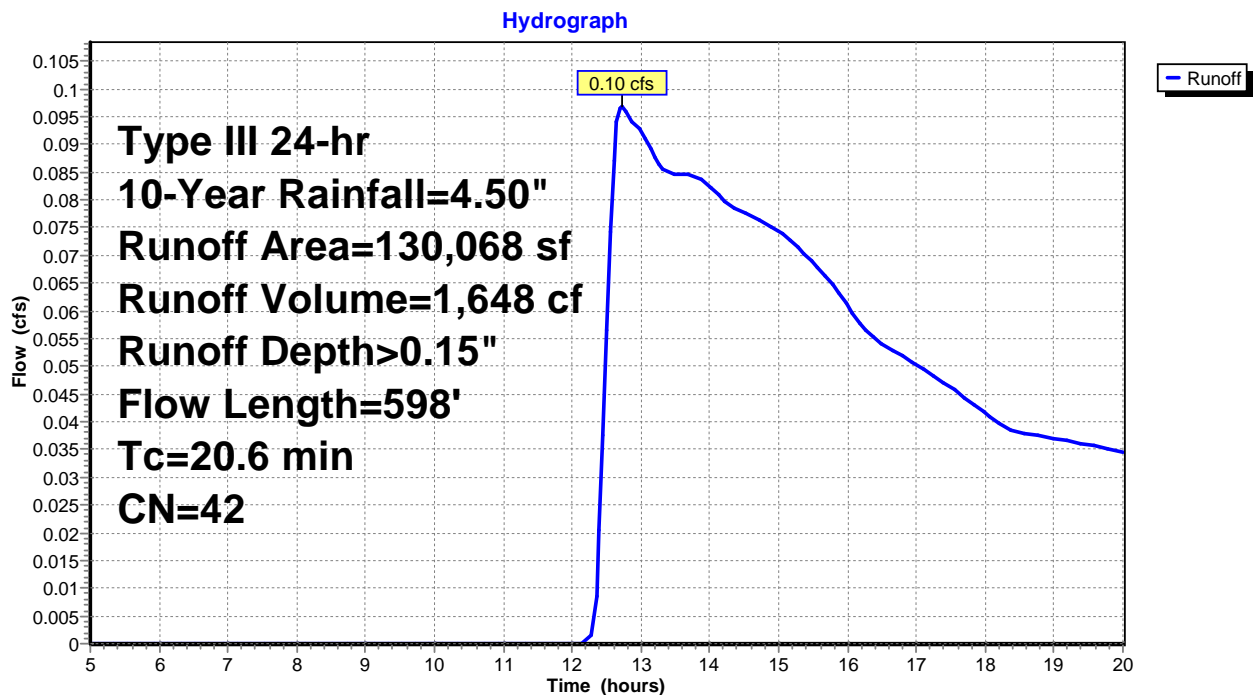
Runoff = 0.10 cfs @ 12.72 hrs, Volume= 1,648 cf, Depth> 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.50"

Area (sf)	CN	Description
105,707	39	>75% Grass cover, Good, HSG A
9,195	30	Woods, Good, HSG A
8,429	72	Dirt roads, HSG A
* 6,737	72	Pervious Pavement
130,068	42	Weighted Average
130,068		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.9	50	0.0120	0.12		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
0.0	6	0.0167	2.08		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
13.7	542	0.0089	0.66		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
20.6	598	Total			

Subcatchment PR-3: Northeast



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Proposed Conditions

Type III 24-hr 10-Year Rainfall=4.50"

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Page 13

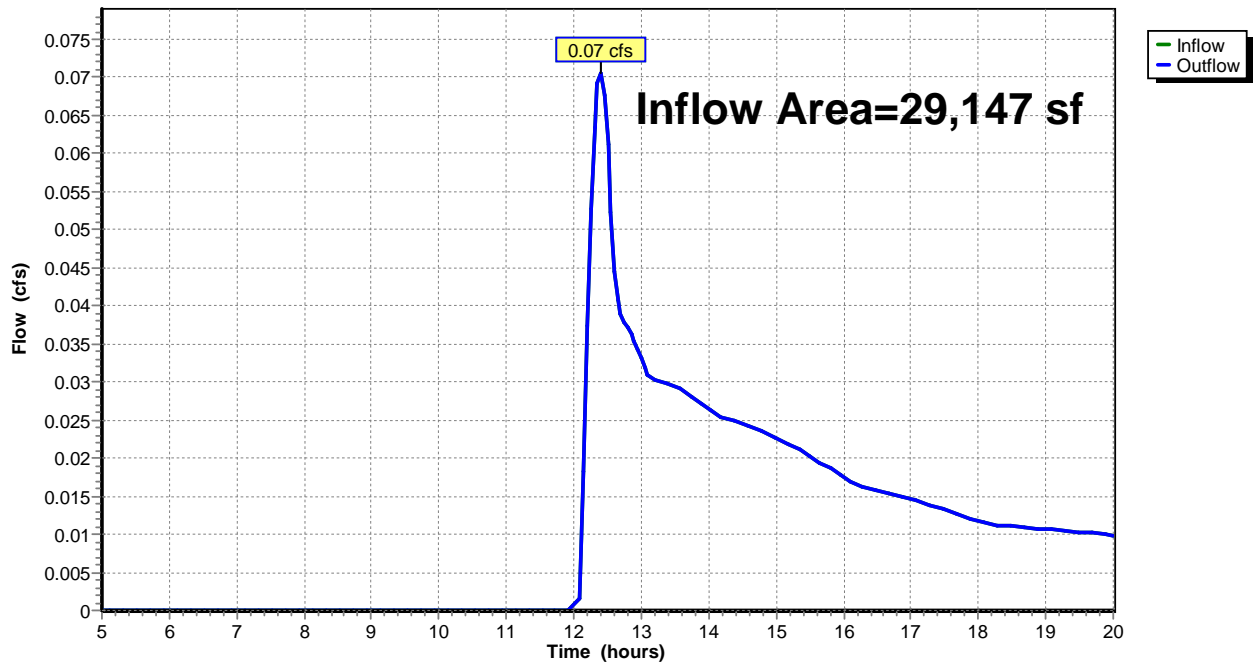
Summary for Reach DP-1p: Bikeway

Inflow Area = 29,147 sf, 0.00% Impervious, Inflow Depth > 0.24" for 10-Year event
Inflow = 0.07 cfs @ 12.39 hrs, Volume= 595 cf
Outflow = 0.07 cfs @ 12.39 hrs, Volume= 595 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-1p: Bikeway

Hydrograph



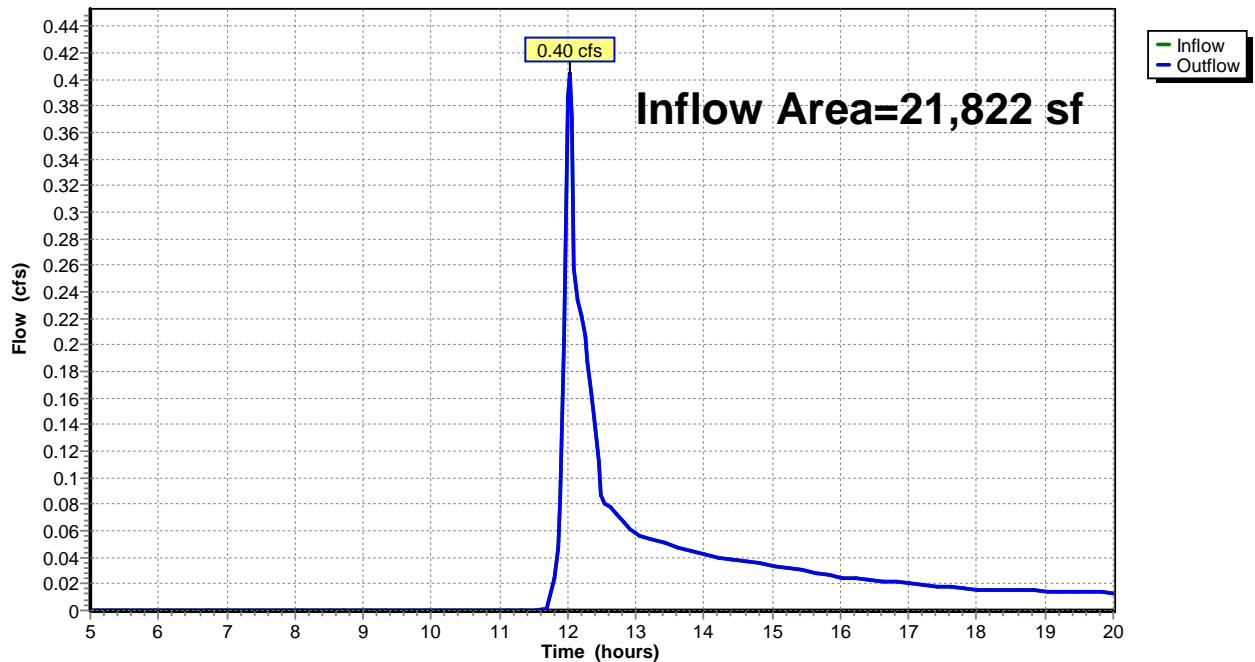
Summary for Reach DP-2p: NW wetland

Inflow Area = 21,822 sf, 0.95% Impervious, Inflow Depth > 0.71" for 10-Year event
Inflow = 0.40 cfs @ 12.02 hrs, Volume= 1,285 cf
Outflow = 0.40 cfs @ 12.02 hrs, Volume= 1,285 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-2p: NW wetland

Hydrograph



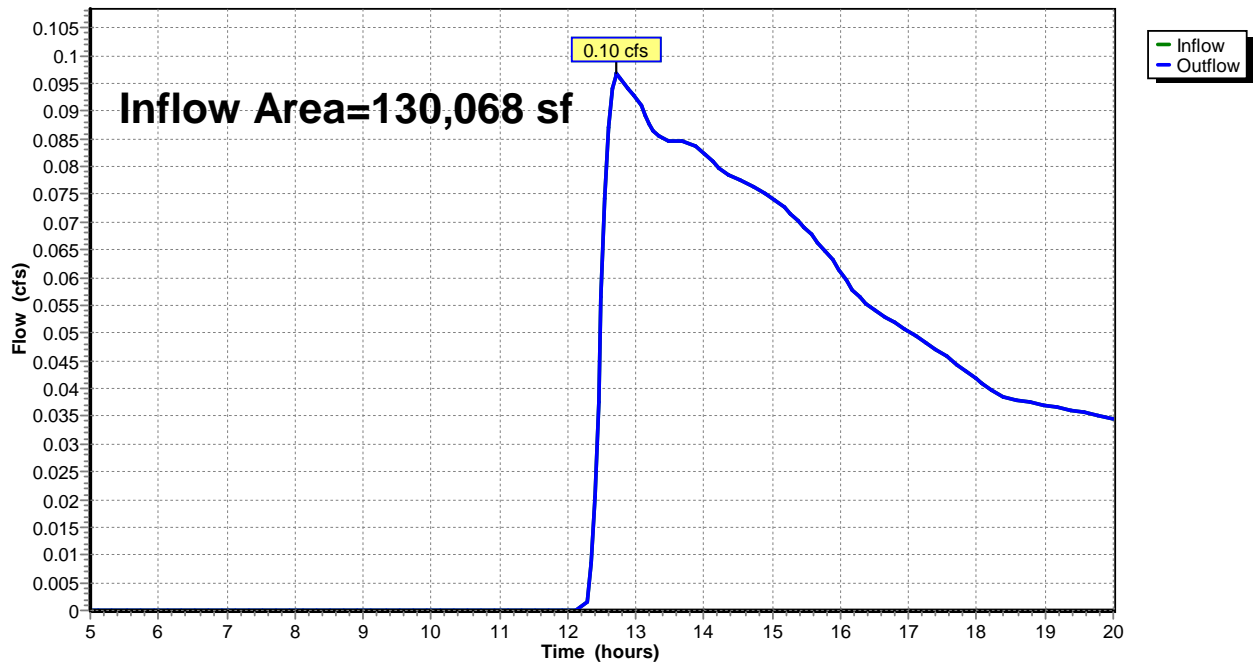
Summary for Reach DP-3p: NE Wetland

Inflow Area = 130,068 sf, 0.00% Impervious, Inflow Depth > 0.15" for 10-Year event
Inflow = 0.10 cfs @ 12.72 hrs, Volume= 1,648 cf
Outflow = 0.10 cfs @ 12.72 hrs, Volume= 1,648 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-3p: NE Wetland

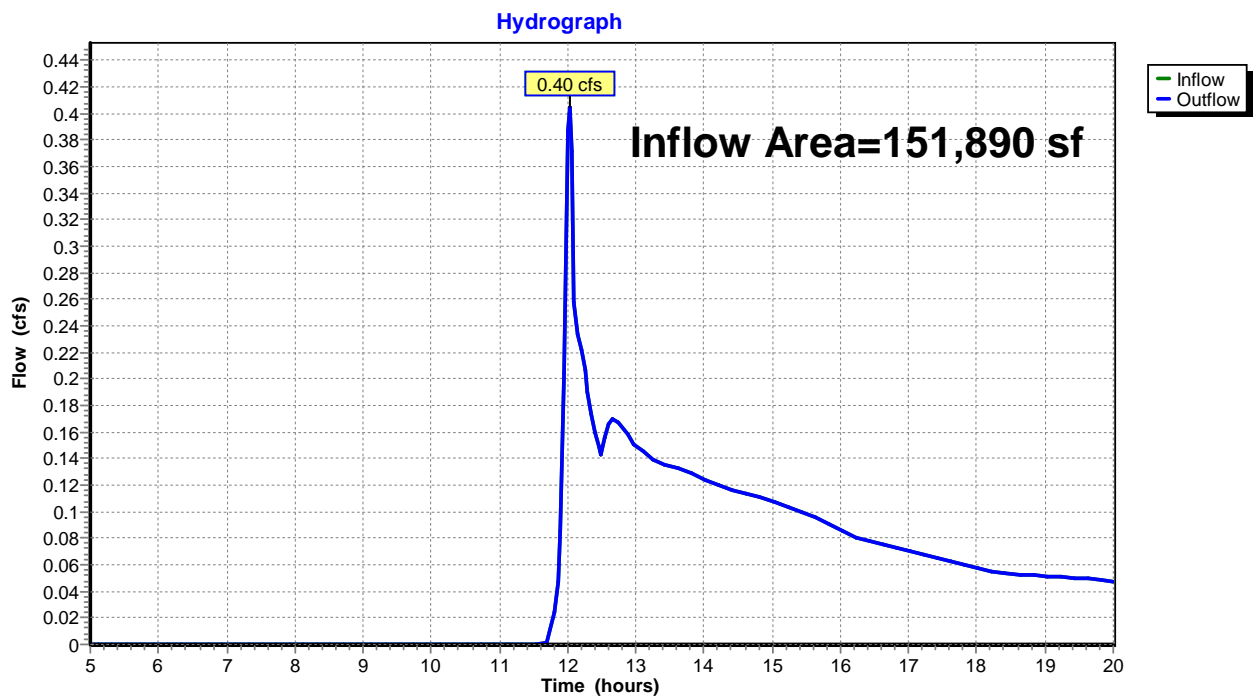
Hydrograph



Summary for Reach DP-4p: Overflow

Inflow Area = 151,890 sf, 0.14% Impervious, Inflow Depth > 0.23" for 10-Year event
Inflow = 0.40 cfs @ 12.02 hrs, Volume= 2,934 cf
Outflow = 0.40 cfs @ 12.02 hrs, Volume= 2,934 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-4p: Overflow

Hydro Hurd

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Proposed Conditions

Type III 24-hr 25-Year Rainfall=5.30"

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Summary for Subcatchment PR-1: South

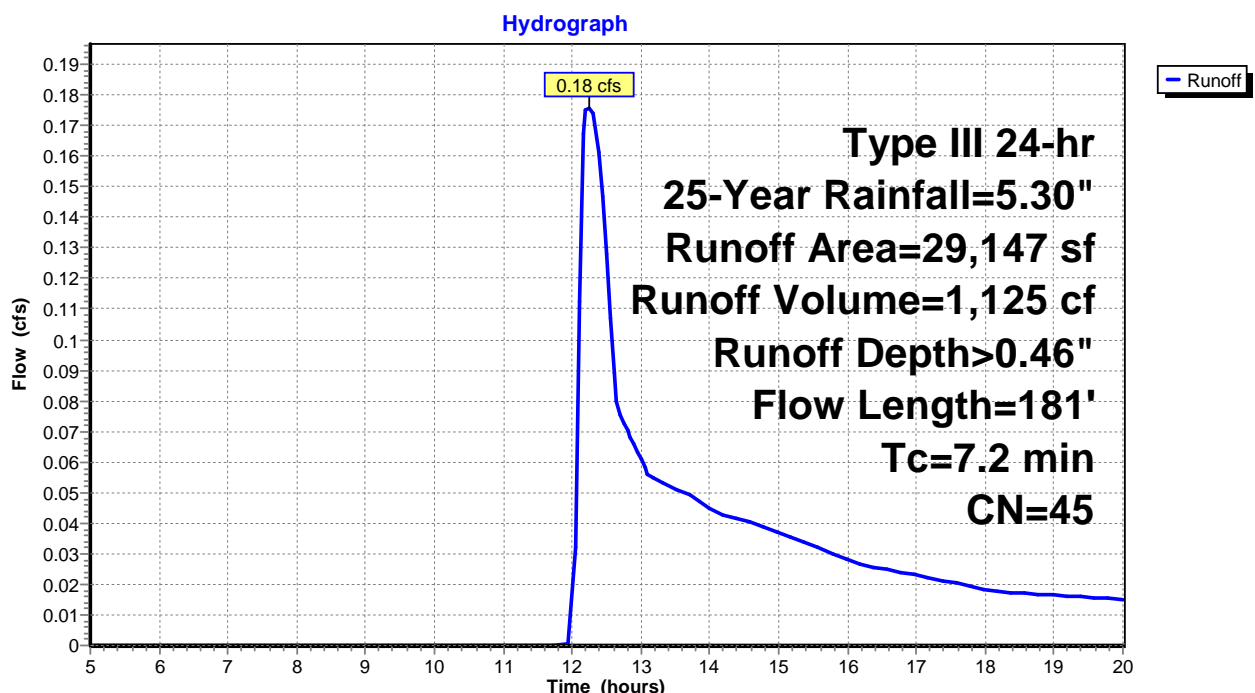
Runoff = 0.18 cfs @ 12.26 hrs, Volume= 1,125 cf, Depth> 0.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=5.30"

Area (sf)	CN	Description
14,555	39	>75% Grass cover, Good, HSG A
6,978	30	Woods, Good, HSG A
2,145	72	Dirt roads, HSG A
* 5,469	72	Pervious Pavement
29,147	45	Weighted Average
29,147		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	50	0.0270	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
1.0	63	0.0215	1.03		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	14	0.0215	2.98		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.4	24	0.0215	1.03		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	30	0.0215	0.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
7.2	181	Total			

Subcatchment PR-1: South



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Type III 24-hr 25-Year Rainfall=5.30"

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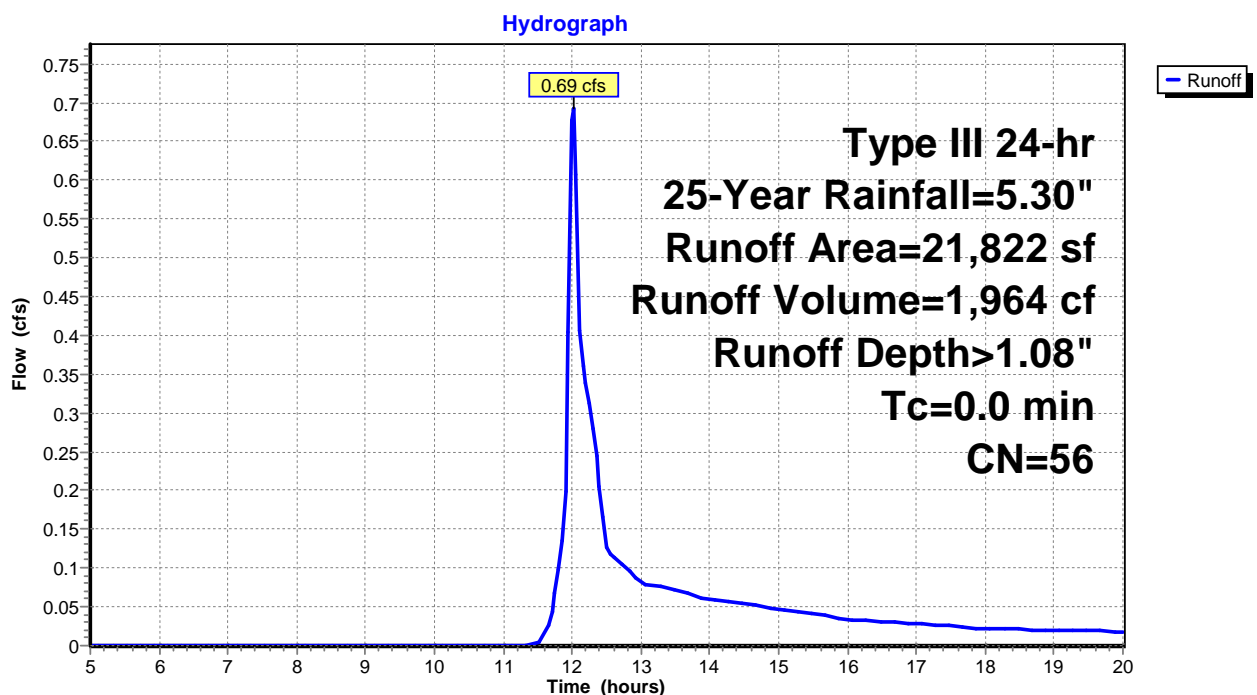
Summary for Subcatchment PR-2: Northwest

Runoff = 0.69 cfs @ 12.01 hrs, Volume= 1,964 cf, Depth> 1.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=5.30"

Area (sf)	CN	Description
6,103	39	>75% Grass cover, Good, HSG A
3,818	30	Woods, Good, HSG A
0	72	Dirt roads, HSG A
* 11,693	72	Pervious Pavement
208	98	Roofs, HSG A
<hr/>		
21,822	56	Weighted Average
21,614		99.05% Pervious Area
208		0.95% Impervious Area

Subcatchment PR-2: Northwest



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Type III 24-hr 25-Year Rainfall=5.30"

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Summary for Subcatchment PR-3: Northeast

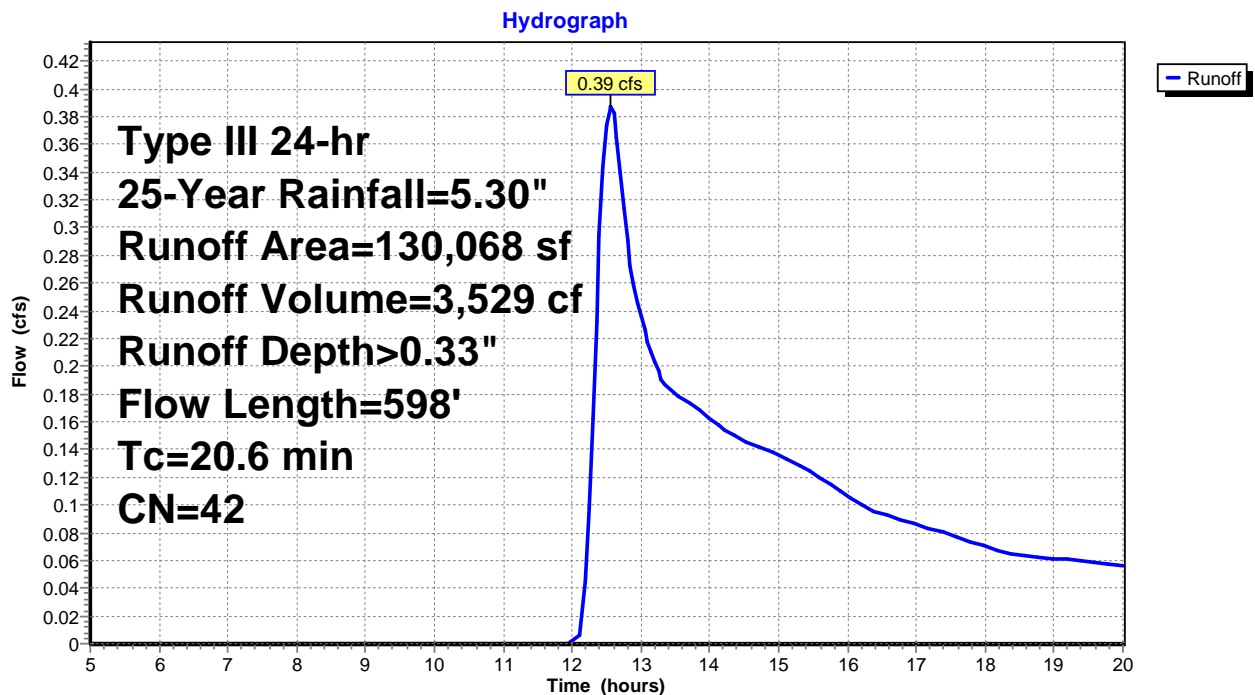
Runoff = 0.39 cfs @ 12.56 hrs, Volume= 3,529 cf, Depth> 0.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=5.30"

Area (sf)	CN	Description
105,707	39	>75% Grass cover, Good, HSG A
9,195	30	Woods, Good, HSG A
8,429	72	Dirt roads, HSG A
* 6,737	72	Pervious Pavement
130,068	42	Weighted Average
130,068		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.9	50	0.0120	0.12		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
0.0	6	0.0167	2.08		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
13.7	542	0.0089	0.66		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
20.6	598	Total			

Subcatchment PR-3: Northeast



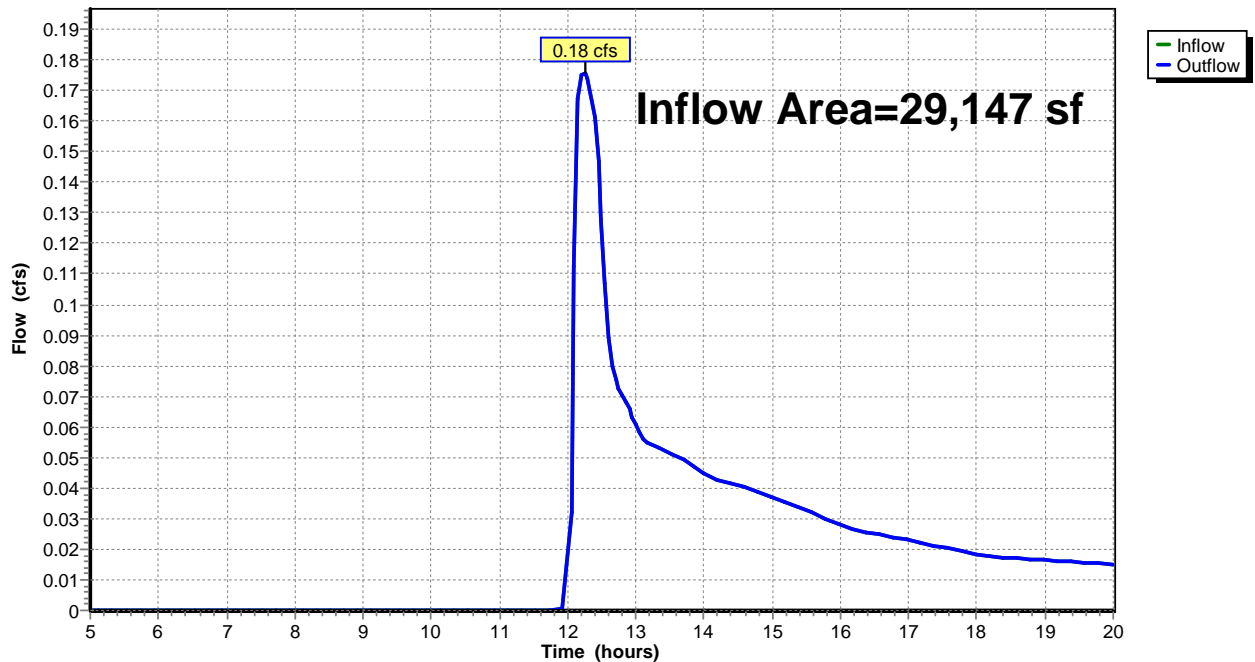
Summary for Reach DP-1p: Bikeway

Inflow Area = 29,147 sf, 0.00% Impervious, Inflow Depth > 0.46" for 25-Year event
Inflow = 0.18 cfs @ 12.26 hrs, Volume= 1,125 cf
Outflow = 0.18 cfs @ 12.26 hrs, Volume= 1,125 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-1p: Bikeway

Hydrograph



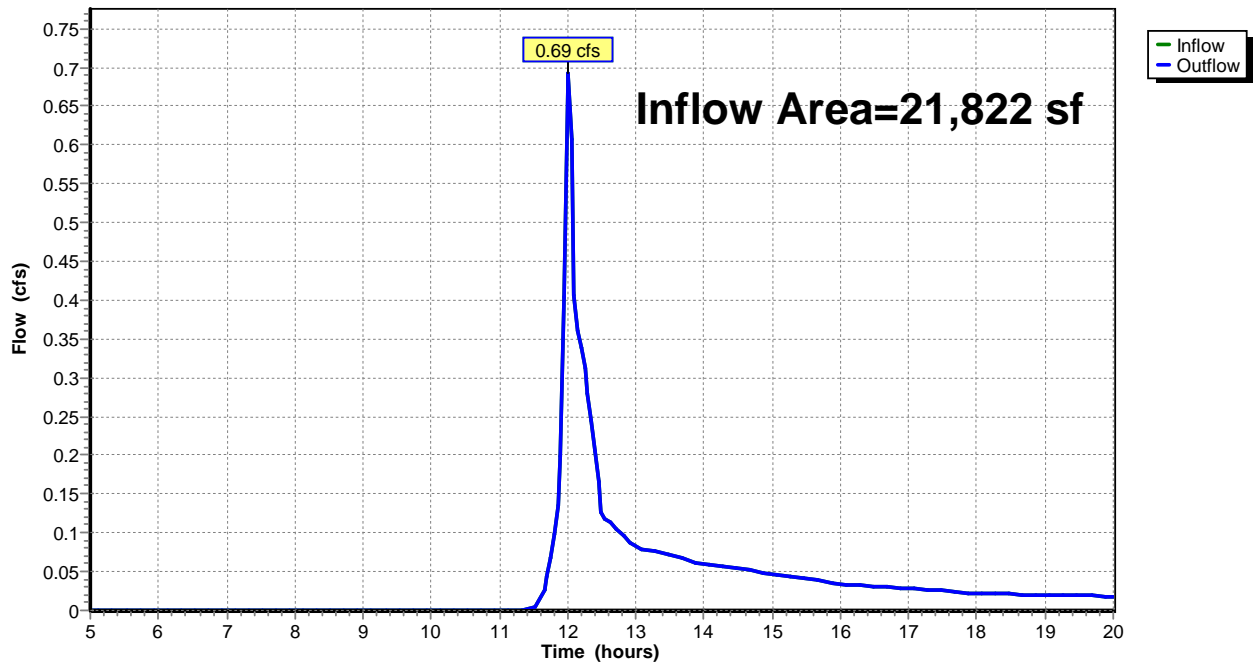
Summary for Reach DP-2p: NW wetland

Inflow Area = 21,822 sf, 0.95% Impervious, Inflow Depth > 1.08" for 25-Year event
Inflow = 0.69 cfs @ 12.01 hrs, Volume= 1,964 cf
Outflow = 0.69 cfs @ 12.01 hrs, Volume= 1,964 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-2p: NW wetland

Hydrograph



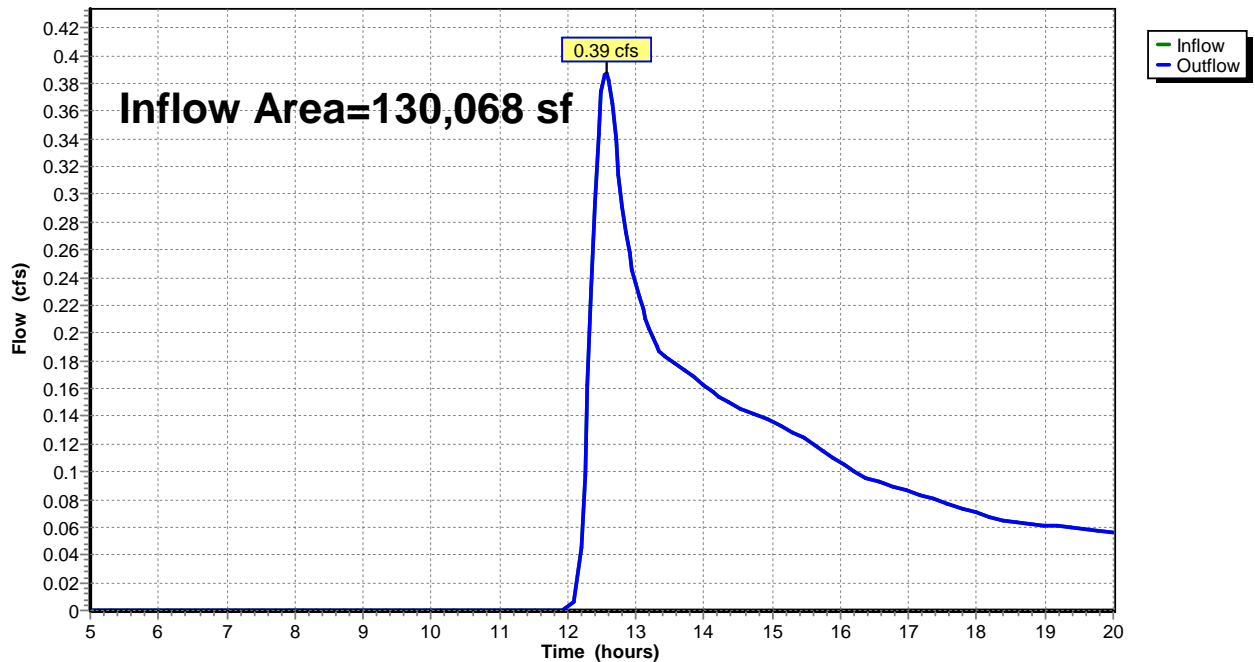
Summary for Reach DP-3p: NE Wetland

Inflow Area = 130,068 sf, 0.00% Impervious, Inflow Depth > 0.33" for 25-Year event
Inflow = 0.39 cfs @ 12.56 hrs, Volume= 3,529 cf
Outflow = 0.39 cfs @ 12.56 hrs, Volume= 3,529 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-3p: NE Wetland

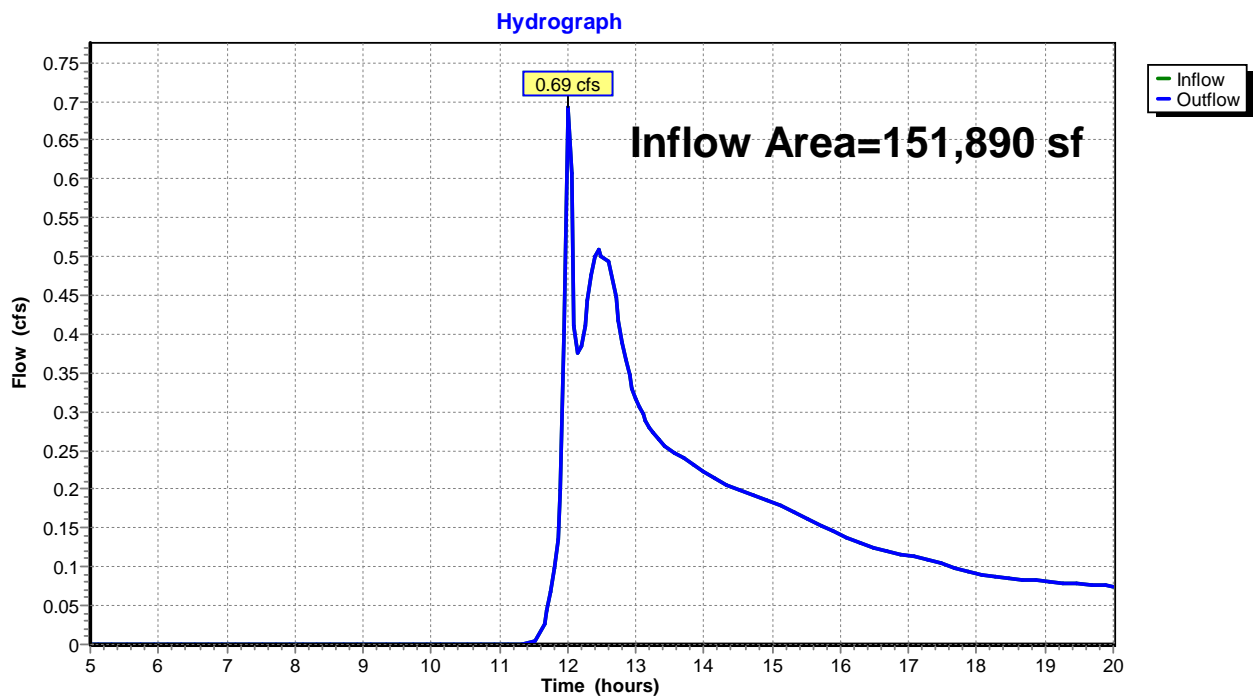
Hydrograph



Summary for Reach DP-4p: Overflow

Inflow Area = 151,890 sf, 0.14% Impervious, Inflow Depth > 0.43" for 25-Year event
Inflow = 0.69 cfs @ 12.01 hrs, Volume= 5,493 cf
Outflow = 0.69 cfs @ 12.01 hrs, Volume= 5,493 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-4p: Overflow

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Type III 24-hr 100-Year Rainfall=8.90"

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Summary for Subcatchment PR-1: South

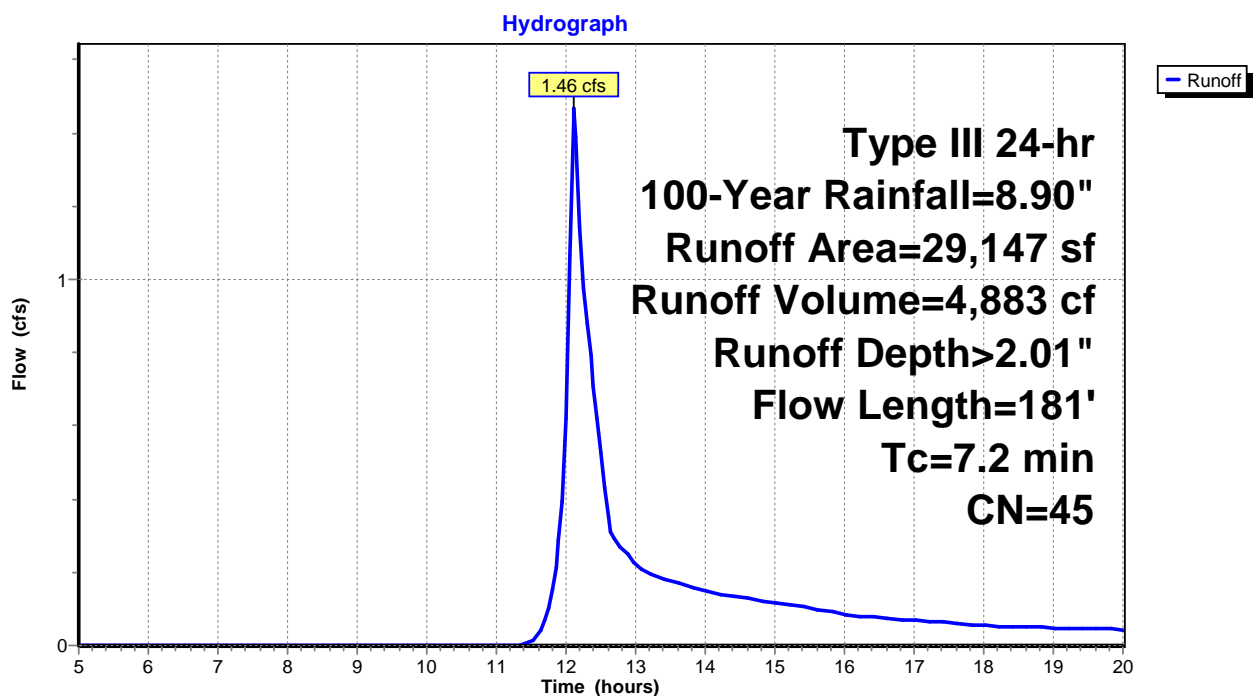
Runoff = 1.46 cfs @ 12.12 hrs, Volume= 4,883 cf, Depth> 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.90"

Area (sf)	CN	Description
14,555	39	>75% Grass cover, Good, HSG A
6,978	30	Woods, Good, HSG A
2,145	72	Dirt roads, HSG A
* 5,469	72	Pervious Pavement
29,147	45	Weighted Average
29,147		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	50	0.0270	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
1.0	63	0.0215	1.03		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	14	0.0215	2.98		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.4	24	0.0215	1.03		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	30	0.0215	0.73		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
7.2	181	Total			

Subcatchment PR-1: South



Hydro_Hurd

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Type III 24-hr 100-Year Rainfall=8.90"

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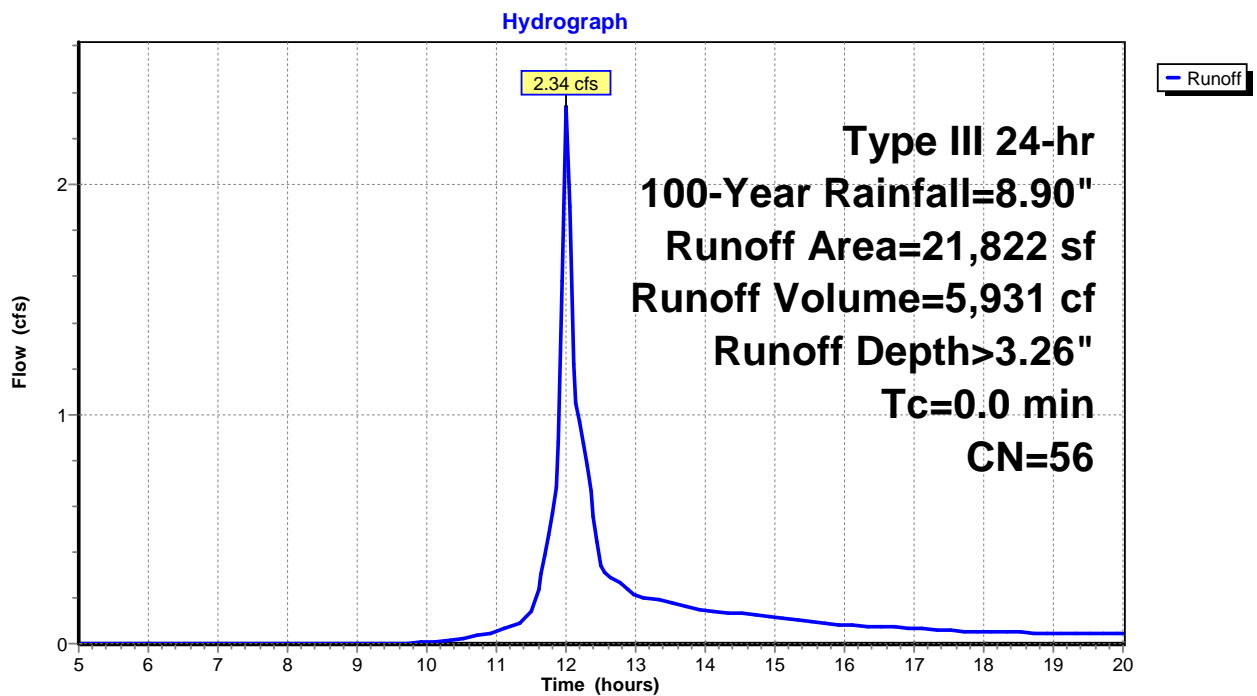
Summary for Subcatchment PR-2: Northwest

Runoff = 2.34 cfs @ 12.01 hrs, Volume= 5,931 cf, Depth> 3.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.90"

Area (sf)	CN	Description
6,103	39	>75% Grass cover, Good, HSG A
3,818	30	Woods, Good, HSG A
0	72	Dirt roads, HSG A
* 11,693	72	Pervious Pavement
208	98	Roofs, HSG A
21,822	56	Weighted Average
21,614		99.05% Pervious Area
208		0.95% Impervious Area

Subcatchment PR-2: Northwest



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Type III 24-hr 100-Year Rainfall=8.90"

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Summary for Subcatchment PR-3: Northeast

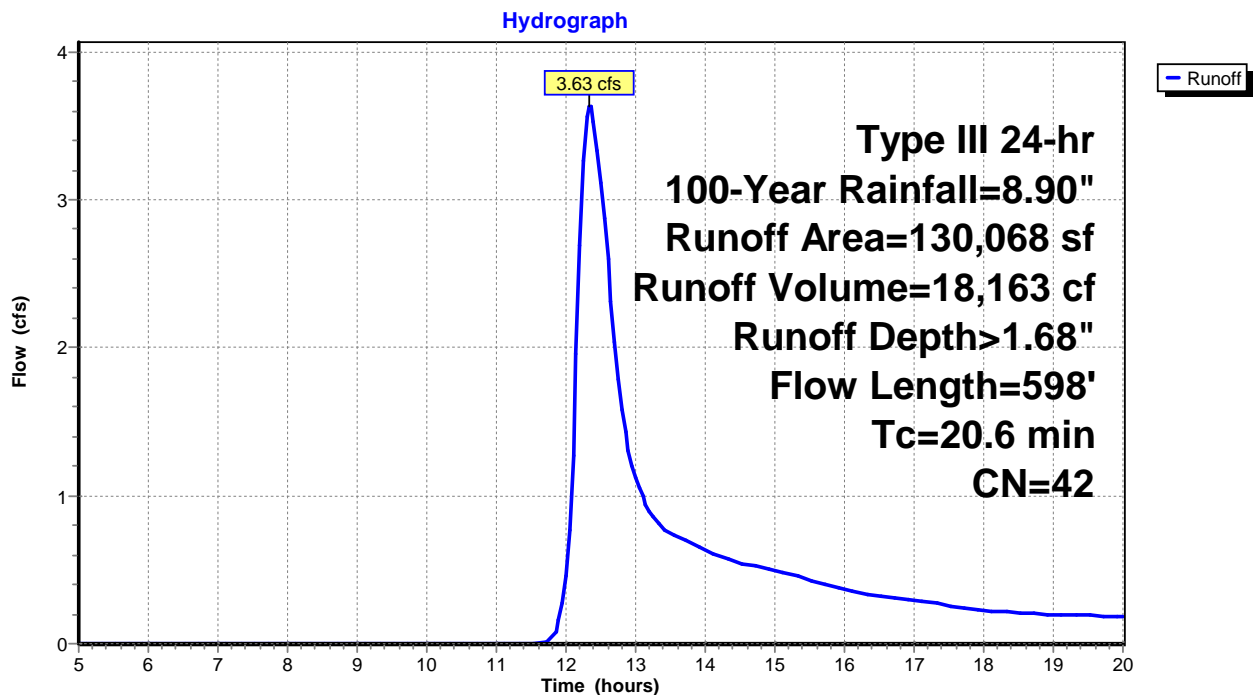
Runoff = 3.63 cfs @ 12.34 hrs, Volume= 18,163 cf, Depth> 1.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.90"

Area (sf)	CN	Description
105,707	39	>75% Grass cover, Good, HSG A
9,195	30	Woods, Good, HSG A
8,429	72	Dirt roads, HSG A
* 6,737	72	Pervious Pavement
130,068	42	Weighted Average
130,068		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.9	50	0.0120	0.12		Sheet Flow, Grass: Short n= 0.150 P2= 3.20"
0.0	6	0.0167	2.08		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
13.7	542	0.0089	0.66		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
20.6	598	Total			

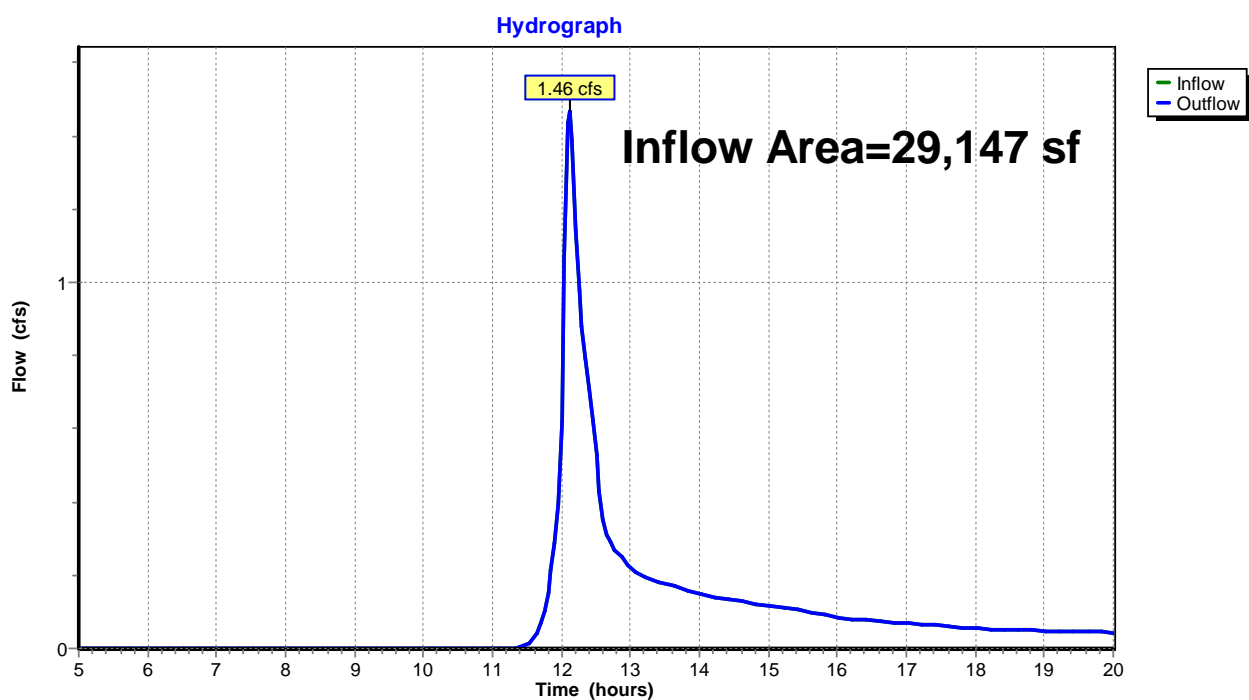
Subcatchment PR-3: Northeast



Summary for Reach DP-1p: Bikeway

Inflow Area = 29,147 sf, 0.00% Impervious, Inflow Depth > 2.01" for 100-Year event
Inflow = 1.46 cfs @ 12.12 hrs, Volume= 4,883 cf
Outflow = 1.46 cfs @ 12.12 hrs, Volume= 4,883 cf, Atten= 0%, Lag= 0.0 min

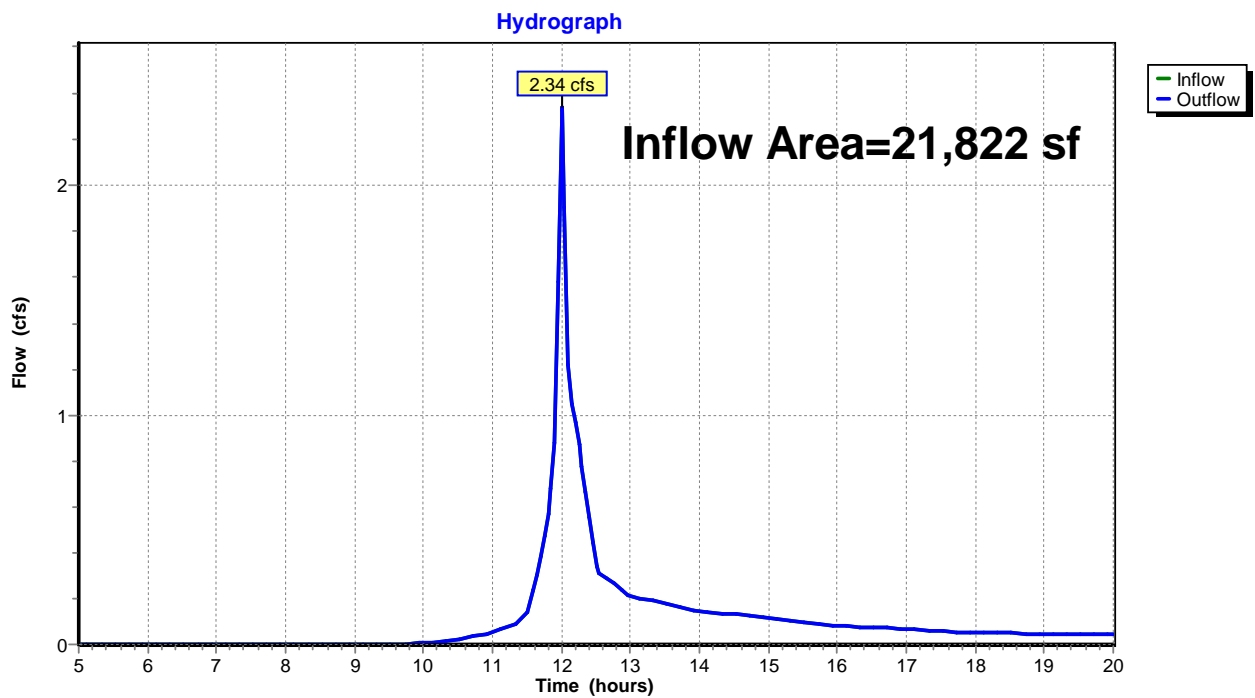
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-1p: Bikeway

Summary for Reach DP-2p: NW wetland

Inflow Area = 21,822 sf, 0.95% Impervious, Inflow Depth > 3.26" for 100-Year event
Inflow = 2.34 cfs @ 12.01 hrs, Volume= 5,931 cf
Outflow = 2.34 cfs @ 12.01 hrs, Volume= 5,931 cf, Atten= 0%, Lag= 0.0 min

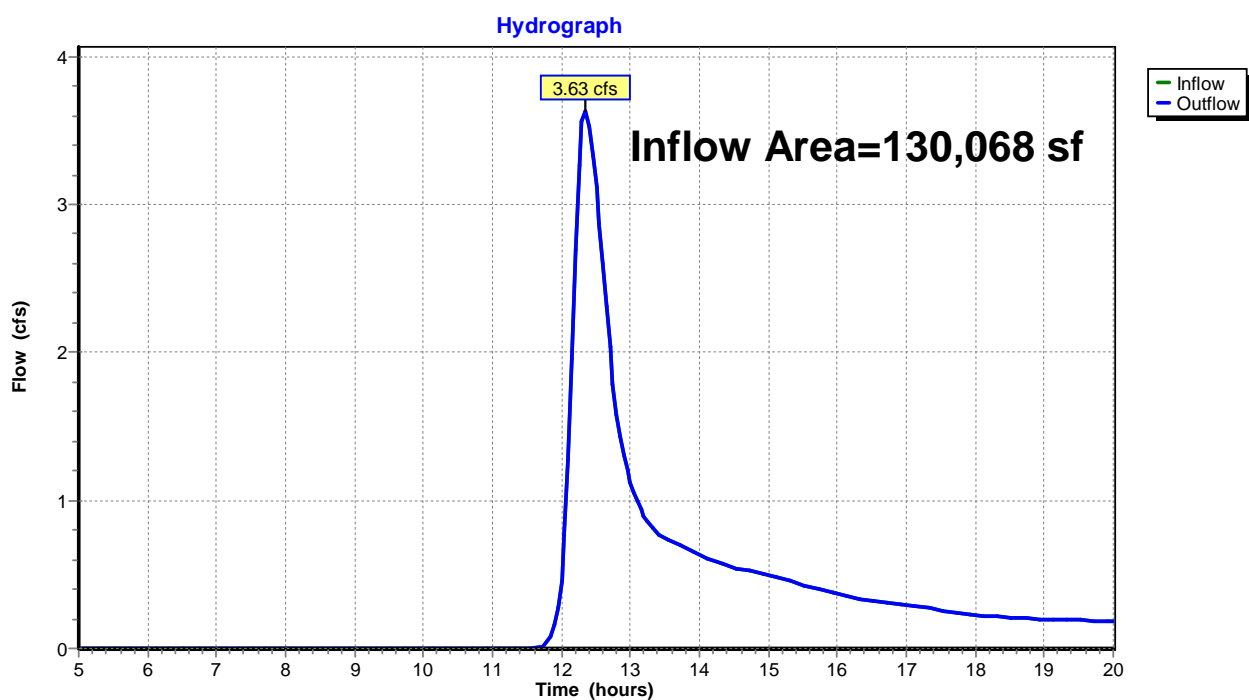
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-2p: NW wetland

Summary for Reach DP-3p: NE Wetland

Inflow Area = 130,068 sf, 0.00% Impervious, Inflow Depth > 1.68" for 100-Year event
Inflow = 3.63 cfs @ 12.34 hrs, Volume= 18,163 cf
Outflow = 3.63 cfs @ 12.34 hrs, Volume= 18,163 cf, Atten= 0%, Lag= 0.0 min

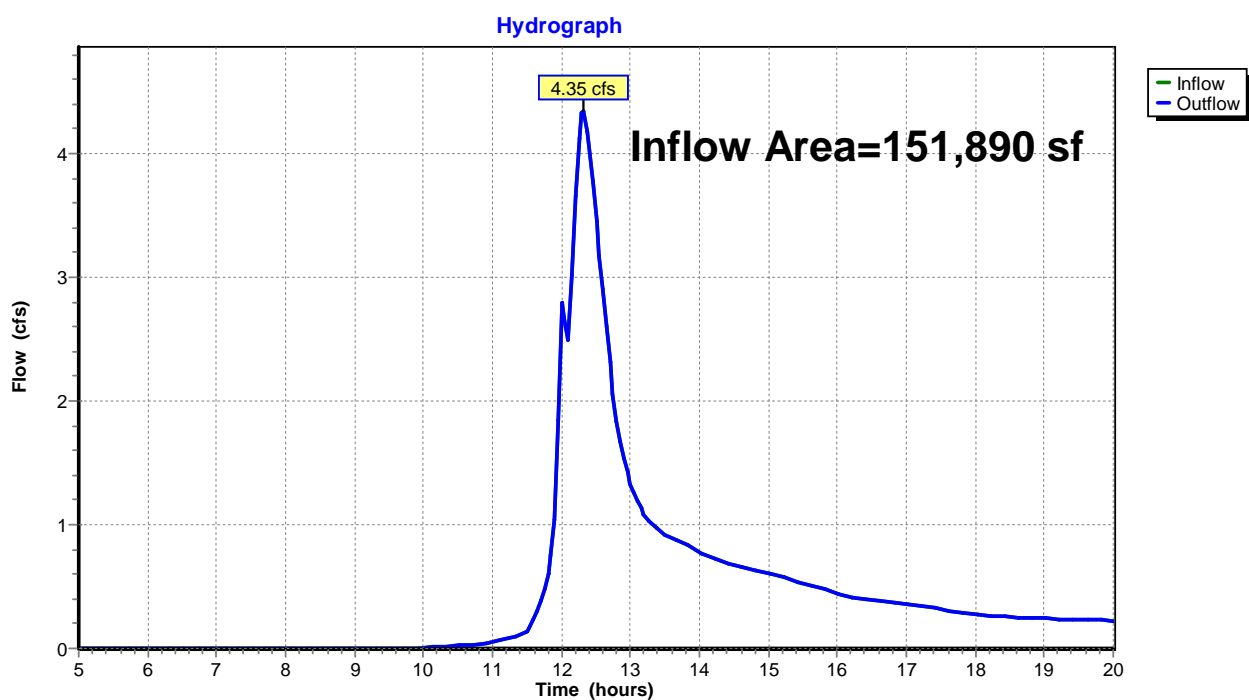
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-3p: NE Wetland

Summary for Reach DP-4p: Overflow

Inflow Area = 151,890 sf, 0.14% Impervious, Inflow Depth > 1.90" for 100-Year event
Inflow = 4.35 cfs @ 12.32 hrs, Volume= 24,093 cf
Outflow = 4.35 cfs @ 12.32 hrs, Volume= 24,093 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Reach DP-4p: Overflow

Appendix B ABUTTER NOTIFICATION INFORMATION



Affidavit of Service For Abutter Notification

I, Josh Atkinson, being duly sworn, do hereby state as follows: on January 6, 2022, I mailed a "Notification to Abutters" in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, s.40, the DEP Guide to Abutter Notification dated April 8, 1994, and the Arlington Wetlands Protection Bylaw, Title V, Article 8 of the Town of Arlington Bylaws in connection with the following matter:

Hurd Field Renovations

The form of the notification, and a list of the abutters to whom it was provided and their addresses, are attached to this Affidavit of Service.

Signed under the pains and penalties of perjury, this 6th day of January, 2022.



Josh Atkinson (printed name)



Office of the
Board of Assessors
Robbins Memorial Town Hall
Arlington, MA 02476
(781) 316-3050
Assessors@town.arlington.ma.us

Abutters List

Date: December 20, 2021

Subject Property Address: 0 LOT MASS AVE Arlington, MA
Subject Property ID: 61-1-3

AND

Subject Property Address: 0 LOT LOWELL ST Arlington, MA
Subject Property ID: 61-1-4

Search Distance: 100 Feet
CONSERVATION

The Board of Assessors certifies the names and addresses of requested parties in interest, all abutters within 100 feet of the property lines, of subject properties.

A handwritten signature in black ink, which appears to read "Robert E. Greeley". The signature is written in a cursive style and is positioned above a horizontal line.

Board of Assessors

Abutters List

Date: December 20, 2021

Subject Property Address: 0-LOT MASS AVE Arlington, MA
Subject Property ID: 61-1-3

Subject Property Address: 0-LOT LOWELL ST Arlington,
MA
Subject Property ID: 61-1-4

Search Distance: 100 Feet
Conservation

Prop ID: 61-1-1
Prop Location: 1425 MASS AVE Arlington, MA
Owner: NWCA ARLINGTON LLC
Co-Owner:
Mailing Address:
2 PARK PLAZA
ROOM 405
BOSTON, MA 02116

Prop ID: 61-1-2.A
Prop Location: 176 LOWELL ST Arlington, MA
Owner: BURGE ROBERT S
Co-Owner:
Mailing Address:
PO BOX 134
LEXINGTON, MA 02474

Prop ID: 61-1-3
Prop Location: 0 LOT MASS AVE Arlington, MA
Owner: TOWN OF ARLINGTON PARK
Co-Owner:
Mailing Address:
730 MASS AVE
ARLINGTON, MA 02476

Prop ID: 61-1-4
Prop Location: 0 LOT LOWELL ST Arlington, MA
Owner: TOWN OF ARLINGTON PARK
Co-Owner:
Mailing Address:
730 MASS AVE
ARLINGTON, MA 02476

Prop ID: 61-1-5
Prop Location: 202 LOWELL ST Arlington, MA
Owner: YOUNG DOUGLAS W & CATHRINE K
Co-Owner:
Mailing Address:
202 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 61-1-6
Prop Location: 198 LOWELL ST Arlington, MA
Owner: SCHWARTZ ELIZABETH
Co-Owner:
Mailing Address:
198 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-7
Prop Location: 194 LOWELL ST Arlington, MA
Owner: BULL PETER
Co-Owner: DOIDGE THEA
Mailing Address:
194 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 61-1-8
Prop Location: 190 LOWELL ST Arlington, MA
Owner: FRY JEFFERY &
Co-Owner: FRY KATE SWEENEY
Mailing Address:
190 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-9
Prop Location: 186 LOWELL ST Arlington, MA
Owner: CONNELL ELLEN H
Co-Owner:
Mailing Address:
186 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61.A-10-1
Prop Location: 10 COLONIAL VILLAGE DR UNIT JI
Arlington, MA
Owner: VALLE ALISON Y
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

Prop ID: 61.A-10-10
Prop Location: 10 COLONIAL VILLAGE DR UNIT J10
Arlington, MA
Owner: SULLIVAN ROSEMARY T
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

Prop ID: 61.A-10-11
Prop Location: 10 COLONIAL VILLAGE DR UNIT J11
Arlington, MA
Owner: GILLIGAN BARBARA YEM- HANG/ TRS
Co-Owner: BARBARA YEM-HANG GILLIGAN
Mailing Address:
10 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-10-12
Prop Location: 10 COLONIAL VILLAGE DR UNIT J12
Arlington, MA
Owner: LEVINE EMMA SILLS
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-10-2
Prop Location: 10 COLONIAL VILLAGE DR UNIT J2
Arlington, MA
Owner: IORDANIDIS ATHINA
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-10-3
Prop Location: 10 COLONIAL VILLAGE DR UNIT J3
Arlington, MA
Owner: ROGERS BRUCE LEE
Co-Owner: LI JINYU
Mailing Address:
107 PINE ST
WOBBURN, MA 01801-3373

Prop ID: 61.A-10-4
Prop Location: 10 COLONIAL VILLAGE DR UNIT J4
Arlington, MA
Owner: VAN RHEENEN CONNIE
Co-Owner:
Mailing Address:
38 BRADBURY STREET
CAMBRIDGE, MA 02138

Prop ID: 61.A-10-5
Prop Location: 10 COLONIAL VILLAGE DR UNIT J5
Arlington, MA
Owner: ABUGOV GREGORY & VICTORIA
Co-Owner:
Mailing Address:
16 ENDICOTT PL
CANTON, MA 02021

Prop ID: 61.A-10-6
Prop Location: 10 COLONIAL VILLAGE DR UNIT J6
Arlington, MA
Owner: PINE DANIEL R
Co-Owner:
Mailing Address:
51 STOWCROFT RD
ARLINGTON, MA 02474

Prop ID: 61.A-10-7
Prop Location: 10 COLONIAL VILLAGE DR UNIT J7
Arlington, MA
Owner: HAN XIAOGANG &
Co-Owner: DONG JENNIFER
Mailing Address:
508 LOWELL ST
LEXINGTON, MA 02420

Prop ID: 61.A-10-8
Prop Location: 10 COLONIAL VILLAGE DR UNIT J8
Arlington, MA
Owner: LIN ZHOUEFANG
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

Prop ID: 61.A-10-9
Prop Location: 10 COLONIAL VILLAGE DR UNIT J9
Arlington, MA
Owner: CHAN MARY KAR-MI
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-1-1
Prop Location: 1 COLONIAL VILLAGE DR UNIT A1
Arlington, MA
Owner: BAGWADIA ZUBIN ETAL TR
Co-Owner: HOPE CYRUS BAGWADIA
Mailing Address:
87 OAK RIDGE TER
LYNNFIELD, MA 01940

Prop ID: 61.A-1-10
Prop Location: 1 COLONIAL VILLAGE DR UNIT A10
Arlington, MA
Owner: ZHOU XIAOXIONG
Co-Owner: A/K/A ZHOU FLORA
Mailing Address:
6195 HARDY DR
MCLEAN, VA 22101

Prop ID: 61.A-1-11
Prop Location: 1 COLONIAL VILLAGE DR UNIT A11
Arlington, MA
Owner: BARRY ELLEN J
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-11-1
Prop Location: 11 COLONIAL VILLAGE DR UNIT K1
Arlington, MA
Owner: LOPEZ DAVID
Co-Owner: QUIROS LOURDES
Mailing Address:
146 OAKLAND ST
MALDEN, MA 02148

Prop ID: 61.A-11-10
Prop Location: 11 COLONIAL VILLAGE DR UNIT K10
Arlington, MA
Owner: LOPEZ DAVID F
Co-Owner: QUIROS LOURDES
Mailing Address:
146 OAKLAND ST
MALDEN, MA 02148

Prop ID: 61.A-11-11
Prop Location: 11 COLONIAL VILLAGE DR UNIT K11
Arlington, MA
Owner: HIGGINS JAMES F
Co-Owner:
Mailing Address:
4836 COMANCHE TRAIL
PRESCOTT, AZ 86301

Prop ID: 61.A-11-12
Prop Location: 11 COLONIAL VILLAGE DR UNIT K12
Arlington, MA
Owner: WALKER KATHRYN R
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-1-12
Prop Location: 1 COLONIAL VILLAGE DR UNIT A12
Arlington, MA
Owner: MA ZHOUYANG
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-11-2
Prop Location: 11 COLONIAL VILLAGE DR UNIT K2
Arlington, MA
Owner: TIERNEY LAURA J TRUSTEE
Co-Owner: PIANTES SOUTH MIDDLESEX COUNTY
Mailing Address:
216 RANGEWAY RD UNIT 142
NORTH BILLERICA, MA 01862

Prop ID: 61.A-11-3
Prop Location: 11 COLONIAL VILLAGE DR UNIT K3
Arlington, MA
Owner: DIMILLA JULIE ELIZABETH
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-11-4
Prop Location: 11 COLONIAL VILLAGE DR UNIT K4
Arlington, MA
Owner: TU WENHONG
Co-Owner:
Mailing Address:
26 SADDLE CLUB RD
LEXINGTON, MA 02420

Prop ID: 61.A-11-5
Prop Location: 11 COLONIAL VILLAGE DR UNIT K5
Arlington, MA
Owner: LOPEZ DAVID F
Co-Owner: QUIROS LOURDES
Mailing Address:
146 OAKLAND ST
MALDEN, MA 02148

Prop ID: 61.A-11-6
Prop Location: 11 COLONIAL VILLAGE DR UNIT K6
Arlington, MA
Owner: AINBINDER ALINA
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-11-7
Prop Location: 11 COLONIAL VILLAGE DR UNIT K7
Arlington, MA
Owner: TU WENJIE
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-11-8
Prop Location: 11 COLONIAL VILLAGE DR UNIT K8
Arlington, MA
Owner: BURKE CHARLES TR
Co-Owner: TR OF S.R. REALTY TRUST
Mailing Address:
C/O LOUIS SARTORI
11 FAIRWAY DR
STOW, MA 01775

Prop ID: 61.A-11-9
Prop Location: 11 COLONIAL VILLAGE DR UNIT K9
Arlington, MA
Owner: VEZNAIAN MARY
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-1-2
Prop Location: 1 COLONIAL VILLAGE DR UNIT A2
Arlington, MA
Owner: HERZBERG LORRIE
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-12-1
Prop Location: 12 COLONIAL VILLAGE DR UNIT L1
Arlington, MA
Owner: SONAM TENZIN
Co-Owner:
Mailing Address:
4 BRIDLE PATH
SUDBURY, MA 01776

Prop ID: 61.A-12-10
Prop Location: 12 COLONIAL VILLAGE DR UNIT L10
Arlington, MA
Owner: SHARP JOHN D & KENNETH G/ TRS
Co-Owner: 2019 CLIFFORD A SHARP
Mailing Address:
12 COLONIAL VILLAGE DR
UNIT 10
ARLINGTON, MA 02474

Prop ID: 61.A-12-11
Prop Location: 12 COLONIAL VILLAGE DR UNIT L11
Arlington, MA
Owner: MURPHY EDWARD
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR UNIT 11
ARLINGTON, MA 02474

Prop ID: 61.A-12-12
Prop Location: 12 COLONIAL VILLAGE DR UNIT L12
Arlington, MA
Owner: BAI DONGFANG
Co-Owner: FEI XINGYUAN
Mailing Address:
12 COLONIAL VILLAGE DR
APT 12
ARLINGTON, MA 02474

Prop ID: 61.A-12-2
Prop Location: 12 COLONIAL VILLAGE DR UNIT L2
Arlington, MA
Owner: LAZURE PETER B/ LIFE ESTATE
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR
UNIT 2
ARLINGTON, MA 02474

Prop ID: 61.A-12-3
Prop Location: 12 COLONIAL VILLAGE DR UNIT L3
Arlington, MA
Owner: DAY STEVEN J
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-12-4
Prop Location: 12 COLONIAL VILLAGE DR UNIT L4
Arlington, MA
Owner: JONES MARILYN J & RICHARD C/ TRS
Co-Owner: JONES 2020 FAMILY TRUST
Mailing Address:
225 PHEASANT AVE
ARLINGTON, MA 02474

Prop ID: 61.A-12-5
Prop Location: 12 COLONIAL VILLAGE DR UNIT L5
Arlington, MA
Owner: MORILLO-TAYLOR LILIANA
Co-Owner:
Mailing Address:
2675 MONTROSE PL
SANTA BARBARA, CA 93105

Prop ID: 61.A-12-6
Prop Location: 12 COLONIAL VILLAGE DR UNIT L6
Arlington, MA
Owner: KOLA EDISON & ANJEZA
Co-Owner:
Mailing Address:
81 BEECHLAND AVE
REVERE, MA 02151

Prop ID: 61.A-12-7
Prop Location: 12 COLONIAL VILLAGE DR UNIT L7
Arlington, MA
Owner: MISAWA TAKAKO
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-12-8
Prop Location: 12 COLONIAL VILLAGE DR UNIT L8
Arlington, MA
Owner: NGUYEN CHIEN VIET
Co-Owner: VO DUNG NGOC
Mailing Address:
12 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

Prop ID: 61.A-12-9
Prop Location: 12 COLONIAL VILLAGE DR UNIT L9
Arlington, MA
Owner: FERREIRA JOYCE P
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-1-3
Prop Location: 1 COLONIAL VILLAGE DR UNIT A3
Arlington, MA
Owner: FARINO CARLOS
Co-Owner: FARINO-VIDAL ZORAYDA
Mailing Address:
4 SYLVIA ST
LEXINGTON, MA 02421

Prop ID: 61.A-1-4
Prop Location: 1 COLONIAL VILLAGE DR UNIT A4
Arlington, MA
Owner: HE JIANG
Co-Owner: YAO TIANQING
Mailing Address:
1 COLONIAL VILLAGE DR
#4
ARLINGTON, MA 02474

Prop ID: 61.A-1-5
Prop Location: 1 COLONIAL VILLAGE DR UNIT A5
Arlington, MA
Owner: WU DAI
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

Prop ID: 61.A-1-6
Prop Location: 1 COLONIAL VILLAGE DR UNIT A6
Arlington, MA
Owner: CARSER DIANE L
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-1-7
Prop Location: 1 COLONIAL VILLAGE DR UNIT A7
Arlington, MA
Owner: ISMAYLOV DMITRIY
Co-Owner:
Mailing Address:
48 SHADY HILL RD
WESTON, MA 02493

Prop ID: 61.A-1-8
Prop Location: 1 COLONIAL VILLAGE DR UNIT A8
Arlington, MA
Owner: WANG PINGLANG & YING
Co-Owner:
Mailing Address:
35 SKYLINE DR
STATEN ISLAND, NY 10304

Prop ID: 61.A-1-9
Prop Location: 1 COLONIAL VILLAGE DR UNIT A9
Arlington, MA
Owner: SABIO DARIO R & JOSEFINA B/TRS
Co-Owner: SABIO FMLY REVOCABLE LIVING TR
Mailing Address:
10598 SANTERNO ST
LAS VEGAS, NV 89141

Prop ID: 61.A-2-1
Prop Location: 2 COLONIAL VILLAGE DR UNIT B1
Arlington, MA
Owner: DONG JENNIFER Q
Co-Owner: HAN XIAOGANG
Mailing Address:
508 LOWELL ST
LEXINGTON, MA 02420

Prop ID: 61.A-2-10
Prop Location: 2 COLONIAL VILLAGE DR UNIT B10
Arlington, MA
Owner: TAM THOMAS &
Co-Owner: TAM WINNIE YIN
Mailing Address:
25 WINCHESTER DRIVE
LEXINGTON, MA 02420

Prop ID: 61.A-2-11
Prop Location: 2 COLONIAL VILLAGE DR UNIT B11
Arlington, MA
Owner: RAMSAY RAYLENE L
Co-Owner:
Mailing Address:
2 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-2-12
Prop Location: 2 COLONIAL VILLAGE DR UNIT B12
Arlington, MA
Owner: TANO YUKI NOBU
Co-Owner:
Mailing Address:
2 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-2-2
Prop Location: 2 COLONIAL VILLAGE DR UNIT B2
Arlington, MA
Owner: SQUIRES PROPERTIES LLC
Co-Owner:
Mailing Address:
344 BISHOPS FOREST DR
WALTHAM, MA 02452

Prop ID: 61.A-2-3
Prop Location: 2 COLONIAL VILLAGE DR UNIT B3
Arlington, MA
Owner: BERGMAN BRUCE L
Co-Owner:
Mailing Address:
2 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-2-4
Prop Location: 2 COLONIAL VILLAGE DR UNIT B4
Arlington, MA
Owner: LEDDY WILLIAM A
Co-Owner:
Mailing Address:
2 COLONIAL VILLAGE DR #4
ARLINGTON, MA 02474

Prop ID: 61.A-2-5
Prop Location: 2 COLONIAL VILLAGE DR UNIT B5
Arlington, MA
Owner: ZHANG YUANYE
Co-Owner: HAO XINMING
Mailing Address:
60 ALBEMARLE AVE
LEXINGTON, MA 02420

Prop ID: 61.A-2-6
Prop Location: 2 COLONIAL VILLAGE DR UNIT B6
Arlington, MA
Owner: MORONEY KEVIN F & PAUL R/TRS
Co-Owner: MORONEY FAMILY REALTY TRUST
Mailing Address:
2 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-2-7
Prop Location: 2 COLONIAL VILLAGE DR UNIT B7
Arlington, MA
Owner: QUAN SUSAN
Co-Owner:
Mailing Address:
67 SLADE ST
BELMONT, MA 02478

Prop ID: 61.A-2-8
Prop Location: 2 COLONIAL VILLAGE DR UNIT B8
Arlington, MA
Owner: WANG ROBERT T & KATHY K/TRS
Co-Owner: WANG REALTY TRUST
Mailing Address:
402 HEATHER DR
LYNNFIELD, MA 01940

Prop ID: 61.A-2-9
Prop Location: 2 COLONIAL VILLAGE DR UNIT B9
Arlington, MA
Owner: WANG LIANGYUN
Co-Owner:
Mailing Address:
75 SAINT ALPHONSUS ST
BOSTON, MA 02120

Prop ID: 61.A-3-1
Prop Location: 3 COLONIAL VILLAGE DR UNIT C1
Arlington, MA
Owner: COSTA MARIA C
Co-Owner:
Mailing Address:
39 BENTON RD
SOMERVILLE, MA 02143

Prop ID: 61.A-3-10
Prop Location: 3 COLONIAL VILLAGE DR UNIT C10
Arlington, MA
Owner: CRONIN WILLIAM E JR
Co-Owner:
Mailing Address:
327 LOWELL ST
LEXINGTON, MA 02420

Prop ID: 61.A-3-11
Prop Location: 3 COLONIAL VILLAGE DR UNIT C11
Arlington, MA
Owner: KINIRY JOHN J JR
Co-Owner:
Mailing Address:
3 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-3-12
Prop Location: 3 COLONIAL VILLAGE DR UNIT C12
Arlington, MA
Owner: YANG YALAN
Co-Owner:
Mailing Address:
3 COLONIAL VILLAGE DR # 12
ARLINGTON, MA 02474

Prop ID: 61.A-3-2
Prop Location: 3 COLONIAL VILLAGE DR UNIT C2
Arlington, MA
Owner: BENNETT FREDERICK
Co-Owner: BENNETT YUAN WEI MARY
Mailing Address:
3 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-3-3
Prop Location: 3 COLONIAL VILLAGE DR UNIT C3
Arlington, MA
Owner: LEE RICHARD
Co-Owner:
Mailing Address:
3 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-3-4
Prop Location: 3 COLONIAL VILLAGE DR UNIT C4
Arlington, MA
Owner: ARLINGTON COLONIAL LLC
Co-Owner:
Mailing Address:
26 SADDLE CLUB RD
LEXINGTON, MA 02420

Prop ID: 61.A-3-5
Prop Location: 3 COLONIAL VILLAGE DR UNIT C5
Arlington, MA
Owner: FENG DUANSI
Co-Owner:
Mailing Address:
3 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

Prop ID: 61.A-3-6
Prop Location: 3 COLONIAL VILLAGE DR UNIT C6
Arlington, MA
Owner: THAMES THOMAS L
Co-Owner: THAMES ELLEN M
Mailing Address:
3 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-3-7
Prop Location: 3 COLONIAL VILLAGE DR UNIT C7
Arlington, MA
Owner: CAMERON MELANIE
Co-Owner:
Mailing Address:
9 PRINCETON ROAD
ARLINGTON, MA 02474

Prop ID: 61.A-3-8
Prop Location: 3 COLONIAL VILLAGE DR UNIT C8
Arlington, MA
Owner: WANG ROBERT T & KATHY K/TRS
Co-Owner: WANG REALTY TRUST
Mailing Address:
402 HEATHER RD
LYNNFIELD, MA 01940

Prop ID: 61.A-3-9
Prop Location: 3 COLONIAL VILLAGE DR UNIT C9
Arlington, MA
Owner: LARSEN DAVID L
Co-Owner:
Mailing Address:
14 WESTERN AVE UNIT 2
GLOUCESTER, MA 01930

Prop ID: 61.A-4-1
Prop Location: 4 COLONIAL VILLAGE DR UNIT D1
Arlington, MA
Owner: JUNG JONATHAN
Co-Owner:
Mailing Address:
4 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

Prop ID: 61.A-4-10
Prop Location: 4 COLONIAL VILLAGE DR UNIT D10
Arlington, MA
Owner: THOMPSON JOHN R & JUDITH
Co-Owner:
Mailing Address:
20 CONNOLLY RD
BILLERICA, MA 01821

Prop ID: 61.A-4-11
Prop Location: 4 COLONIAL VILLAGE DR UNIT D11
Arlington, MA
Owner: JING HONG
Co-Owner:
Mailing Address:
4 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-4-12
Prop Location: 4 COLONIAL VILLAGE DR UNIT D12
Arlington, MA
Owner: COMMONWEALTH BOSTON REALTY LLC
Co-Owner:
Mailing Address:
111 PERKINS STREET #303
JAMAICA PLAIN, MA 02130

Prop ID: 61.A-4-2
Prop Location: 4 COLONIAL VILLAGE DR UNIT D2
Arlington, MA
Owner: COLONIAL VILLAGE CONDOMINIUM
Co-Owner: TRUST
Mailing Address:
C/O DEPT 368 FIRST REALTY MANAGEMENT COR
PO BOX 4579
HOUSTON, TX 77210-4579

Prop ID: 61.A-4-3
Prop Location: 4 COLONIAL VILLAGE DR UNIT D3
Arlington, MA
Owner: JOHNSON CARL R
Co-Owner:
Mailing Address:
75 WILSON RD
BEDFORD, MA 01730

Prop ID: 61.A-4-4
Prop Location: 4 COLONIAL VILLAGE DR UNIT D4
Arlington, MA
Owner: KHADKA SANDEEP
Co-Owner: THAPA SRISHA
Mailing Address:
4 COLONIAL VILLAGE DR #4
ARLINGTON, MA 02474

Prop ID: 61.A-4-5
Prop Location: 4 COLONIAL VILLAGE DR UNIT D5
Arlington, MA
Owner: JENNINGS LAURIE/TRUSTEE
Co-Owner: SANDRA L FJELD 2017 IRREVOCABL
Mailing Address:
4 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

Prop ID: 61.A-4-6
Prop Location: 4 COLONIAL VILLAGE DR UNIT D6
Arlington, MA
Owner: MANANDHAR ANILA
Co-Owner:
Mailing Address:
2 ST MARY'S RD
BURLINGTON, MA 01803

Prop ID: 61.A-4-7
Prop Location: 4 COLONIAL VILLAGE DR UNIT D7
Arlington, MA
Owner: CHEN YU
Co-Owner: ZHENG YINGNING
Mailing Address:
4 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-4-8
Prop Location: 4 COLONIAL VILLAGE DR UNIT D8
Arlington, MA
Owner: XIE CHAO
Co-Owner: YAN MINGLI
Mailing Address:
47 SOMERSET RD
LEXINGTON, MA 02420

Prop ID: 61.A-4-9
Prop Location: 4 COLONIAL VILLAGE DR UNIT D9
Arlington, MA
Owner: KIM MYUNG HEE
Co-Owner:
Mailing Address:
131 COOLIDGE AVE UNIT 128
WATERTOWN, MA 02472-2847

Prop ID: 61.A-5-1
Prop Location: 5 COLONIAL VILLAGE DR UNIT E1
Arlington, MA
Owner: LEXINGTON REALTY HOLDINGS LLC
Co-Owner:
Mailing Address:
PO BOX 134
LEXINGTON, MA 02420

Prop ID: 61.A-5-10
Prop Location: 5 COLONIAL VILLAGE DR UNIT E10
Arlington, MA
Owner: OCALLAGHAN KELLY &
Co-Owner: SCHNEIDER BRENDYN
Mailing Address:
5 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

Prop ID: 61.A-5-11
Prop Location: 5 COLONIAL VILLAGE DR UNIT E11
Arlington, MA
Owner: CHENG HUI
Co-Owner: WANG HUI
Mailing Address:
5 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-5-12
Prop Location: 5 COLONIAL VILLAGE DR UNIT E12
Arlington, MA
Owner: HUANG GRACE
Co-Owner:
Mailing Address:
7 COOK RD
BURLINGTON, MA 01803

Prop ID: 61.A-5-2
Prop Location: 5 COLONIAL VILLAGE DR UNIT E2
Arlington, MA
Owner: CARON PROPERTIES LLC
Co-Owner:
Mailing Address:
23 MARRIGAN ST
ARLINGTON, MA 02474

Prop ID: 61.A-5-3
Prop Location: 5 COLONIAL VILLAGE DR UNIT E3
Arlington, MA
Owner: SMITH IRENE H
Co-Owner:
Mailing Address:
5 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-5-4
Prop Location: 5 COLONIAL VILLAGE DR UNIT E4
Arlington, MA
Owner: JAIN SUJIT G
Co-Owner: GOLECHA PRATIBHA S
Mailing Address:
30 APPLETON PL UNIT 2
ARLINGTON, MA 02476

Prop ID: 61.A-5-5
Prop Location: 5 COLONIAL VILLAGE DR UNIT E5
Arlington, MA
Owner: WU PHILIP C
Co-Owner:
Mailing Address:
10 BROADWAY PL APT 3
SOMERVILLE, MA 02145

Prop ID: 61.A-5-6
Prop Location: 5 COLONIAL VILLAGE DR UNIT E6
Arlington, MA
Owner: GROSS GERALDINE R
Co-Owner:
Mailing Address:
5 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-5-7
Prop Location: 5 COLONIAL VILLAGE DR UNIT E7
Arlington, MA
Owner: AHMARI SOHRAB
Co-Owner:
Mailing Address:
5 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-5-8
Prop Location: 5 COLONIAL VILLAGE DR UNIT E8
Arlington, MA
Owner: MASKEY ANURAG
Co-Owner: SHRESTHA SHACHI
Mailing Address:
47 WALLACE ST
NEWTON HIGHLANDS, MA 02461

Prop ID: 61.A-5-9
Prop Location: 5 COLONIAL VILLAGE DR UNIT E9
Arlington, MA
Owner: LAWSON MARTHA A
Co-Owner:
Mailing Address:
70 MT VERNON ST
HAVERHILL, MA 01830

Prop ID: 61.A-6-1
Prop Location: 6 COLONIAL VILLAGE DR UNIT F1
Arlington, MA
Owner: MENDEZ VICTOR F
Co-Owner:
Mailing Address:
11 RICHARDSON RD
STONEHAM, MA 02180

Prop ID: 61.A-6-10
Prop Location: 6 COLONIAL VILLAGE DR UNIT F10
Arlington, MA
Owner: WOLFE DANIEL P
Co-Owner:
Mailing Address:
6 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

Prop ID: 61.A-6-11
Prop Location: 6 COLONIAL VILLAGE DR UNIT F11
Arlington, MA
Owner: HARRIS JEFFREY M
Co-Owner:
Mailing Address:
6 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-6-12
Prop Location: 6 COLONIAL VILLAGE DR UNIT F12
Arlington, MA
Owner: LEE FONG-CHANG
Co-Owner: LEE SHIU-IN
Mailing Address:
C/O JOSEPH LEE
1531 LUDINGTON AVE
WESLEY CHAPEL, FL 33543

Prop ID: 61.A-6-2
Prop Location: 6 COLONIAL VILLAGE DR UNIT F2
Arlington, MA
Owner: CATALDI MAUREEN
Co-Owner:
Mailing Address:
6 COLONIAL VILLAGE DR
UNIT 2
ARLINGTON, MA 02474

Prop ID: 61.A-6-3
Prop Location: 6 COLONIAL VILLAGE DR UNIT F3
Arlington, MA
Owner: RANNEY ROGER ERIC
Co-Owner:
Mailing Address:
6 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-6-4
Prop Location: 6 COLONIAL VILLAGE DR UNIT F4
Arlington, MA
Owner: MEI KATHY XIUWEN
Co-Owner:
Mailing Address:
32 ARCOLA ST
LEXINGTON, MA 02420

Prop ID: 61.A-6-5
Prop Location: 6 COLONIAL VILLAGE DR UNIT F5
Arlington, MA
Owner: KIM KYUNGSANG
Co-Owner: SONG DU RI
Mailing Address:
6 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

Prop ID: 61.A-6-6
Prop Location: 6 COLONIAL VILLAGE DR UNIT F6
Arlington, MA
Owner: RENDA CATHERINE A/ TRUSTEE
Co-Owner: BRIGHTMAN FAMILY REALTY TRUST
Mailing Address:
765 PLACID LAKE DR
OSPREY, FL 34229

Prop ID: 61.A-6-7
Prop Location: 6 COLONIAL VILLAGE DR UNIT F7
Arlington, MA
Owner: MACAULEY LYNNE A
Co-Owner: BROWN ROBERT J
Mailing Address:
6 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-6-8
Prop Location: 6 COLONIAL VILLAGE DR UNIT F8
Arlington, MA
Owner: ZHANG YANFANG
Co-Owner: CUI JIKE
Mailing Address:
78 MAPLE ST
BELMONT, MA 02478

Prop ID: 61.A-6-9
Prop Location: 6 COLONIAL VILLAGE DR UNIT F9
Arlington, MA
Owner: PERKINS ELLIOTT W & ANITA C
Co-Owner: TRS/ PERKINS FAMILY TRUST
Mailing Address:
17 STEEPLE CHASE CIRCLE
WESTFORD, MA 01886

Prop ID: 61.A-7-1
Prop Location: 7 COLONIAL VILLAGE DR UNIT G1
Arlington, MA
Owner: DAWSON MATTHEW
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

Prop ID: 61.A-7-10
Prop Location: 7 COLONIAL VILLAGE DR UNIT G10
Arlington, MA
Owner: GIOVINAZZO EMMA
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

Prop ID: 61.A-7-11
Prop Location: 7 COLONIAL VILLAGE DR UNIT G11
Arlington, MA
Owner: MUSE CAROLYN M & JAMES A
Co-Owner:
Mailing Address:
1 PONDEROSA DR
PELHAM, NH 03076

Prop ID: 61.A-7-12
Prop Location: 7 COLONIAL VILLAGE DR UNIT G12
Arlington, MA
Owner: AUSTIN ALEXANDER B
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-7-2
Prop Location: 7 COLONIAL VILLAGE DR UNIT G2
Arlington, MA
Owner: JANTZ JOAN EDITH/ TRUSTEE
Co-Owner: JOAN EDITH JANTZ REVOCABLE TR
Mailing Address:
64 GRAY ST
ARLINGTON, MA 02476

Prop ID: 61.A-7-3
Prop Location: 7 COLONIAL VILLAGE DR UNIT G3
Arlington, MA
Owner: FARRELL MICHAEL W
Co-Owner: STEIN BRITTANY T
Mailing Address:
7 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-7-4
Prop Location: 7 COLONIAL VILLAGE DR UNIT G4
Arlington, MA
Owner: MAUGEL NATHAN/JENNIFER
Co-Owner:
Mailing Address:
60 MUNROE DR
EAST HAMPSTEAD, NH 03826

Prop ID: 61.A-7-5
Prop Location: 7 COLONIAL VILLAGE DR UNIT G5
Arlington, MA
Owner: SHIU PLACID K
Co-Owner:
Mailing Address:
19 GRANT PL
LEXINGTON, MA 02420

Prop ID: 61.A-7-6
Prop Location: 7 COLONIAL VILLAGE DR UNIT G6
Arlington, MA
Owner: MUTCH JESSICA E/ TRUSTEE
Co-Owner: JESSICA E MUTCH REVOCABLE
Mailing Address:
21 DEAN ST
BELMONT, MA 02478

Prop ID: 61.A-7-7
Prop Location: 7 COLONIAL VILLAGE DR UNIT G7
Arlington, MA
Owner: SIEGEL JULES
Co-Owner:
Mailing Address:
1010 WALTHAM ST APT 295
LEXINGTON, MA 02421

Prop ID: 61.A-7-8
Prop Location: 7 COLONIAL VILLAGE DR UNIT G8
Arlington, MA
Owner: ZHANG ZHENZHEN &
Co-Owner: CHEN KUN
Mailing Address:
58 CRESTVIEW RD
BELMONT, MA 02478

Prop ID: 61.A-7-9
Prop Location: 7 COLONIAL VILLAGE DR UNIT G9
Arlington, MA
Owner: SWARTS HEIDI
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-8-1
Prop Location: 8 COLONIAL VILLAGE DR UNIT H1
Arlington, MA
Owner: LEXINGTON REALTY HOLDINGS LLC
Co-Owner:
Mailing Address:
PO BOX 134
LEXINGTON, MA 02420

Prop ID: 61.A-8-10
Prop Location: 8 COLONIAL VILLAGE DR UNIT H10
Arlington, MA
Owner: JONAS MICHAEL
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02476

Prop ID: 61.A-8-11
Prop Location: 8 COLONIAL VILLAGE DR UNIT H11
Arlington, MA
Owner: RAHMATPOUR SOHAILA--ETAL
Co-Owner: NAKHAEI HAMID
Mailing Address:
20 OVERBROOK DRIVE
WELLESLEY, MA 02482

Prop ID: 61.A-8-12
Prop Location: 8 COLONIAL VILLAGE DR UNIT H12
Arlington, MA
Owner: MILLER CHERYL S
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-8-2
Prop Location: 8 COLONIAL VILLAGE DR UNIT H2
Arlington, MA
Owner: KNIGHT WILL
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-8-3
Prop Location: 8 COLONIAL VILLAGE DR UNIT H3
Arlington, MA
Owner: TCHOUL SVIATOSLAV
Co-Owner: TCHOUL OKSANA & MAXIM
Mailing Address:
8 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-8-4
Prop Location: 8 COLONIAL VILLAGE DR UNIT H4
Arlington, MA
Owner: NADJARIAN VATCHE
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR
UNIT 4
ARLINGTON, MA 02474

Prop ID: 61.A-8-5
Prop Location: 8 COLONIAL VILLAGE DR UNIT H5
Arlington, MA
Owner: KING ALLISON J
Co-Owner:
Mailing Address:
32 RIVER ST
APT 2
CAMBRIDGE, MA 02139

Prop ID: 61.A-8-6
Prop Location: 8 COLONIAL VILLAGE DR UNIT H6
Arlington, MA
Owner: HUEY JEFFREY K
Co-Owner:
Mailing Address:
15 NORTH BEACON ST
UNIT 507
ALLSTON, MA 02134

Prop ID: 61.A-8-7
Prop Location: 8 COLONIAL VILLAGE DR UNIT H7
Arlington, MA
Owner: SHEEHAN KEVIN/ANDREA
Co-Owner:
Mailing Address:
228 FOX HILL RD
BURLINGTON, MA 01803

Prop ID: 61.A-8-8
Prop Location: 8 COLONIAL VILLAGE DR UNIT H8
Arlington, MA
Owner: RUSSO ANMARIE
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

Prop ID: 61.A-8-9
Prop Location: 8 COLONIAL VILLAGE DR UNIT H9
Arlington, MA
Owner: LIU QING
Co-Owner: LI SHUANGLIAN
Mailing Address:
8 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-9-1
Prop Location: 9 COLONIAL VILLAGE DR UNIT I1
Arlington, MA
Owner: SHEEHAN DANIEL
Co-Owner: GOODWIN-SHEEHAN DESIREE
Mailing Address:
9 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

Prop ID: 61.A-9-10
Prop Location: 9 COLONIAL VILLAGE DR UNIT I10
Arlington, MA
Owner: PRESTON DIANE
Co-Owner:
Mailing Address:
186 NEWPORT ST
ARLINGTON, MA 02476

Prop ID: 61.A-9-11
Prop Location: 9 COLONIAL VILLAGE DR UNIT I11
Arlington, MA
Owner: VALDETTARO VERONIQUE A
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-9-12
Prop Location: 9 COLONIAL VILLAGE DR UNIT I12
Arlington, MA
Owner: FLEMING ELLEN T
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-9-2
Prop Location: 9 COLONIAL VILLAGE DR UNIT 2
Arlington, MA
Owner: NEWMARK GERRY G
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-9-3
Prop Location: 9 COLONIAL VILLAGE DR UNIT I3
Arlington, MA
Owner: ELBANNAN SAMAA
Co-Owner:
Mailing Address:
39 PINE HILL RD
BEDFORD, MA 01730

Prop ID: 61.A-9-4
Prop Location: 9 COLONIAL VILLAGE DR UNIT I4
Arlington, MA
Owner: DONOVAN JOANNE
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #14
ARLINGTON, MA 02474

Prop ID: 61.A-9-5
Prop Location: 9 COLONIAL VILLAGE DR UNIT I5
Arlington, MA
Owner: LAI RALPH W M & CINDY S T
Co-Owner:
Mailing Address:
28 CORNERSTONE CT
DOYLESTOWN, PA 18901

Prop ID: 61.A-9-6
Prop Location: 9 COLONIAL VILLAGE DR UNIT I6
Arlington, MA
Owner: WANG PINGLANG & YING
Co-Owner:
Mailing Address:
35 SKYLINE DR
STATEN ISLAND, NY 10304

Prop ID: 61.A-9-7
Prop Location: 9 COLONIAL VILLAGE DR UNIT I7
Arlington, MA
Owner: ZHANG YANFANG &
Co-Owner: CUI JIKE
Mailing Address:
78 MAPLE ST
BELMONT, MA 02478

Prop ID: 61.A-9-8
Prop Location: 9 COLONIAL VILLAGE DR UNIT I8
Arlington, MA
Owner: SHINGU IKUE
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

Prop ID: 61.A-9-9
Prop Location: 9 COLONIAL VILLAGE DR UNIT I9
Arlington, MA
Owner: MAC INNES PATRICIA
Co-Owner:
Mailing Address:
32 ST CATHERINE RD
NORWOOD, MA 02062

Prop ID: 62-1-2
Prop Location: 1471 MASS AVE Arlington, MA
Owner: SUGRUE TERESA ETAL/ TRUSTEES
Co-Owner: JTZ REALTY TRUST
Mailing Address:
281 STEARNS RD
MARLBOROUGH, MA 01752

Prop ID: 62-1-3
Prop Location: 0-LOT MASS AVE Arlington, MA
Owner: TOWN OF ARLINGTON-PARK
Co-Owner:
Mailing Address:
730 MASS AVE
ARLINGTON, MA 02476

Prop ID: 62-1-3.B
Prop Location: 1491-1493 MASS AVE Arlington, MA
Owner: VENTURA SALVATORE &
Co-Owner: VENTURA BRIGITTE
Mailing Address:
1491 MASS AVE
ARLINGTON, MA 02476

Prop ID: 62-1-4.A
Prop Location: 16-38 DRAKE RD Arlington, MA
Owner: ARLINGTON HOUSING AUTHORITY
Co-Owner: DRAKE VILLAGE
Mailing Address:
730 MASS AVE
ARLINGTON, MA 02476

Prop ID: 85-1-7
Prop Location: 4 WESTMORELAND AVE Arlington, MA
Owner: CALLAGHAN OWEN & JESSICA
Co-Owner:
Mailing Address:
4 WESTMORELAND AVE
ARLINGTON, MA 02474

Prop ID: 85-1-8
Prop Location: 239 LOWELL ST Arlington, MA
Owner: VERDERESE JOHN T
Co-Owner:
Mailing Address:
239 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 85-1-9
Prop Location: 243 LOWELL ST Arlington, MA
Owner: WYATT PATRICIA L
Co-Owner:
Mailing Address:
243 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 85-4-14
Prop Location: 3 WESTMORELAND AVE Arlington, MA
Owner: ENG DAVID H
Co-Owner: CANTY ANDREA M
Mailing Address:
3 WESTMORELAND AVE
ARLINGTON, MA 02474

Prop ID: 85-4-15
Prop Location: 221 LOWELL ST Arlington, MA
Owner: LAMONT STUART & BARBARA
Co-Owner:
Mailing Address:
221 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 85-4-16
Prop Location: 219 LOWELL ST Arlington, MA
Owner: MURRAY MICHAEL S & SUZANNA B
Co-Owner:
Mailing Address:
219 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 85-4-21
Prop Location: 7 WEST COURT TERR Arlington, MA
Owner: STROK GAVIN M
Co-Owner: STROK MARIE-CAROLINE
Mailing Address:
7 WEST COURT TERR
ARLINGTON, MA 02474

Prop ID: 85-4-22
Prop Location: 207 LOWELL ST Arlington, MA
Owner: MARTENS CHINA L
Co-Owner: MARTENS SIEGFRIED
Mailing Address:
207 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 85-4-23
Prop Location: 203 LOWELL ST Arlington, MA
Owner: SALOCKS JEFFREY D--ETAL
Co-Owner: STAFFORD SHARON L
Mailing Address:
203 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 85-4-26
Prop Location: 197 LOWELL ST Arlington, MA
Owner: GETTLER JUSTIN B & HOLLY K
Co-Owner:
Mailing Address:
197 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 86-5-10.A
Prop Location: 255 LOWELL ST Arlington, MA
Owner: GALVIN ANNE M
Co-Owner:
Mailing Address:
255 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 86-5-10.B
Prop Location: 0-LOT LOWELL ST Arlington, MA
Owner: PLANT SUSAN W
Co-Owner: CHO DANYUL Y
Mailing Address:
257 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 86-5-11
Prop Location: 257 LOWELL ST Arlington, MA
Owner: PLANT SUSAN W
Co-Owner: CHO DANYUL Y
Mailing Address:
257 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 86-5-12
Prop Location: 261 LOWELL ST Arlington, MA
Owner: PHAN DIA MINH
Co-Owner: YAO GRACE
Mailing Address:
261 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 86-5-13
Prop Location: 265 LOWELL ST Arlington, MA
Owner: CHARLIER-MATTHEWS REBECCA
Co-Owner: KOSMATKA KRISTOPHER
Mailing Address:
265 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 86-5-14
Prop Location: 269 LOWELL ST Arlington, MA
Owner: QUINN ARIANNA ISABELLA KRINOS
Co-Owner: QUINN LUKE JOSEPH
Mailing Address:
269 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 86-5-15
Prop Location: 271 LOWELL ST Arlington, MA
Owner: GEISSLER GARY J
Co-Owner:
Mailing Address:
1 LOWELL STREET
LEXINGTON, MA 02420

Prop ID: 86-5-9
Prop Location: 251 LOWELL ST Arlington, MA
Owner: ALLEN THOMAS J &
Co-Owner: SENESE MARGARET D
Mailing Address:
251 LOWELL STREET
ARLINGTON, MA 02474

For Condo Owners send one Certified Mail/Return Receipt to:
Condo Association c/o Condo Trustee/President
10 Colonial Village Drive
Arlington, MA 02476

TOWN OF ARLINGTON PARK
730 MASS AVE
ARLINGTON, MA 02476

~~TOWN OF ARLINGTON PARK
730 MASS AVE
ARLINGTON, MA 02476~~

NWCA ARLINGTON LLC
2 PARK PLAZA
ROOM 405
BOSTON, MA 02116

BURGE ROBERT S
PO BOX 134
LEXINGTON, MA 02474

YOUNG DOUGLAS W &
202 LOWELL STREET
ARLINGTON, MA 02474

SCHWARTZ ELIZABETH
198 LOWELL ST
ARLINGTON, MA 02474

BULL PETER
DOIDGE THEA
194 LOWELL STREET
ARLINGTON, MA 02474

FRY JEFFERY &
FRY KATE SWEENEY
190 LOWELL ST
ARLINGTON, MA 02474

CONNELL ELLEN H
186 LOWELL ST
ARLINGTON, MA 02474

~~VALLE ALISON Y
10 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474~~

~~SULLIVAN ROSEMARY T
10 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474~~

~~GILLIGAN BARBARA YEM-
BARBARA YEM-HANG
10 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474~~

~~LEVINE EMMA SILLS
10 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474~~

~~IORDANIDIS ATHINA
10 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474~~

ROGERS BRUCE LEE
LI JINYU
107 PINE ST
WOBBURN, MA 01801-3373

VAN RHEENEN CONNIE
38 BRADBURY STREET
CAMBRIDGE, MA 02138

ABUGOV GREGORY &
16 ENDICOTT PL
CANTON, MA 02021

PINE DANIEL R
51 STOWCROFT RD
ARLINGTON, MA 02474

HAN XIAOGANG &
DONG JENNIFER
508 LOWELL ST
LEXINGTON, MA 02420

~~LIN ZHOUFANG
10 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474~~

~~CHAN MARY KAR-MI
10 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474~~

BAGWADIA ZUBIN ETAL TR
HOPE CYRUS BAGWADIA
87 OAK RIDGE TER
LYNNFIELD, MA 01940

ZHOU XIAOXIONG
A/K/A ZHOU FLORA
6195 HARDY DR
MCLEAN, VA 22101

~~BARRY ELLEN J
1 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474~~

LOPEZ DAVID
QUIROS LOURDES
146 OAKLAND ST
MALDEN, MA 02148

~~LOPEZ DAVID F
QUIROS LOURDES
146 OAKLAND ST
MALDEN, MA 02148~~

HIGGINS JAMES F
4836 COMANCHE TRAIL
PRESCOTT, AZ 86301

~~WALKER KATHRYN R
11 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474~~

~~MA ZHOUYANG
1 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474~~

TIERNEY LAURA J TRUSTEE
PIANTES SOUTH MIDDLESEX
216 RANGEWAY RD UNIT 142
NORTH BILLERICA, MA 01862

~~DIMILLA JULIE ELIZABETH
11 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474~~

~~TU WENHONG
26 SADDLE CLUB RD
LEXINGTON, MA 02420~~

~~LOPEZ DAVID F
QUIROS LOURDES
146 OAKLAND ST
MALDEN, MA 02148~~

same
owners
listed 3x's

~~AINBINDER ALINA
11 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474~~

~~TU WENJIE
11 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474~~

~~BURKE CHARLES TR
TR OF S.R. REALTY TRUST
C/O LOUIS SARTORI
11 FAIRWAY DR
STOW, MA 01775~~

~~VEZNAIAN MARY
11 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474~~

~~HERZBERG LORRIE
1 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474~~

~~SONAM TENZIN
4 BRIDLE PATH
SUDBURY, MA 01776~~

~~SHARP JOHN D & KENNETH
2019 CLIFFORD A SHARP
12 COLONIAL VILLAGE DR
UNIT 10
ARLINGTON, MA 02474~~

~~MURPHY EDWARD
12 COLONIAL VILLAGE DR UNIT 11
ARLINGTON, MA 02474~~

~~BAI DONGFANG
FEI XINGYUAN
12 COLONIAL VILLAGE DR
APT 12
ARLINGTON, MA 02474~~

~~LAZURE PETER B/ LIFE
12 COLONIAL VILLAGE DR
UNIT 2
ARLINGTON, MA 02474~~

~~DAY STEVEN J
12 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474~~

~~JONES MARILYN J &
JONES 2020 FAMILY TRUST
225 PHEASANT AVE
ARLINGTON, MA 02474~~

~~MORILLO-TAYLOR LILIANA
2675 MONTROSE PL
SANTA BARBARA, CA 93105~~

~~KOLA EDISON & ANJEZA
81 BEECHLAND AVE
REVERE, MA 02151~~

~~MISAWA TAKAKO
12 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474~~

~~NGUYEN CHIEN VIET
VO DUNG NGOC
12 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474~~

~~FERREIRA JOYCE P
12 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474~~

~~FARINO CARLOS
FARINO-VIDAL ZORAYDA
4 SYLVIA ST
LEXINGTON, MA 02421~~

~~HE JIANG
YAO TIANQING
1 COLONIAL VILLAGE DR
#4
ARLINGTON, MA 02474~~

~~WU DAI
1 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474~~

~~CARSER DIANE L
1 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474~~

~~ISMAYLOV DMITRIY
48 SHADY HILL RD
WESTON, MA 02493~~

~~WANG PINGLANG & YING
35 SKYLINE DR
STATEN ISLAND, NY 10304~~

~~SABIO DARIO R & JOSEFINA
SABIO FMLY REVOCABLE
10598 SANTERNO ST
LAS VEGAS, NV 89141~~

~~DONG JENNIFER Q
HAN XIAOGANG
508 LOWELL ST
LEXINGTON, MA 02420~~

~~TAM THOMAS &
TAM WINNIE YIN
25 WINCHESTER DRIVE
LEXINGTON, MA 02420~~

~~RAMSAY RAYLENE L
2 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474~~

TANO YUKI NOBU
2 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

SQUIRES PROPERTIES LLC
344 BISHOPS FOREST DR
WALTHAM, MA 02452

BERGMAN BRUCE L
2 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

LEDDY WILLIAM A
2 COLONIAL VILLAGE DR #4
ARLINGTON, MA 02474

ZHANG YUANYE
HAO XINMING
60 ALBEMARLE AVE
LEXINGTON, MA 02420

MORONEY KEVIN F & PAUL
MORONEY FAMILY REALTY
2 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

QUAN SUSAN
67 SLADE ST
BELMONT, MA 02478

WANG ROBERT T & KATHY
WANG REALTY TRUST
402 HEATHER DR
LYNNFIELD, MA 01940

WANG LIANGYUN
75 SAINT ALPHONSUS ST
BOSTON, MA 02120

COSTA MARIA C
39 BENTON RD
SOMERVILLE, MA 02143

CRONIN WILLIAM E JR
327 LOWELL ST
LEXINGTON, MA 02420

KINIRY JOHN J JR
3 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

YANG YALAN
3 COLONIAL VILLAGE DR # 12
ARLINGTON, MA 02474

BENNETT FREDERICK
BENNETT YUAN WEI MARY
3 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

LEE RICHARD
3 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

ARLINGTON COLONIAL LLC
26 SADDLE CLUB RD
LEXINGTON, MA 02420

FENG DUANSI
3 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

THAMES THOMAS L
THAMES ELLEN M
3 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

CAMERON MELANIE
9 PRINCETON ROAD
ARLINGTON, MA 02474

WANG ROBERT T & KATHY
WANG REALTY TRUST
402 HEATHER RD
LYNNFIELD, MA 01940

LARSEN DAVID L
14 WESTERN AVE UNIT 2
GLOUCESTER, MA 01930

JUNG JONATHAN
4 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

THOMPSON JOHN R & JUDITH
20 CONNOLLY RD
BILLERICA, MA 01821

JING HONG
4 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

COMMONWEALTH BOSTON
111 PERKINS STREET #303
JAMAICA PLAIN, MA 02130

COLONIAL VILLAGE
TRUST
C/O DEPT 368 FIRST REALTY
PO BOX 4579
HOUSTON, TX 77210-4579

JOHNSON CARL R
75 WILSON RD
BEDFORD, MA 01730

KHADKA SANDEEP
THAPA SRISHA
4 COLONIAL VILLAGE DR #4
ARLINGTON, MA 02474

JENNINGS LAURIE/TRUSTEE
SANDRA L FJELD 2017
4 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

MANANDHAR ANILA
2 ST MARY'S RD
BURLINGTON, MA 01803

CHEN YU
ZHENG YINGNING
4 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

XIE CHAO
YAN MINGLI
47 SOMERSET RD
LEXINGTON, MA 02420

KIM MYUNG HEE
131 COOLIDGE AVE UNIT 128
WATERTOWN, MA 02472-2847

LEXINGTON REALTY
PO BOX 134
LEXINGTON, MA 02420

O'CALLAGHAN KELLY &
SCHNEIDER BRENDYN
5 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

CHENG HUI
WANG HUI
5 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

HUANG GRACE
7 COOK RD
BURLINGTON, MA 01803

CARON PROPERTIES LLC
23 MARRIGAN ST
ARLINGTON, MA 02474

SMITH IRENE H
5 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

JAIN SUJIT G
GOLECHA PRATIBHA S
30 APPLETON PL UNIT 2
ARLINGTON, MA 02476

WU PHILIP C
10 BROADWAY PL APT 3
SOMERVILLE, MA 02145

GROSS GERALDINE R
5 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

AHMARI SOHRAB
5 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

MASKEY ANURAG
SHRESTHA SHACHI
47 WALLACE ST
NEWTON HIGHLANDS, MA 02461

LAWSON MARTHA A
70 MT VERNON ST
HAVERHILL, MA 01830

MENDEZ VICTOR F
11 RICHARDSON RD
STONEHAM, MA 02180

WOLFE DANIEL P
6 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

HARRIS JEFFREY M
6 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

LEE FONG-CHANG
LEE SHIU-IN
C/O JOSEPH LEE
1531 LUDINGTON AVE
WESLEY CHAPEL, FL 33543

CATALDI MAUREEN
6 COLONIAL VILLAGE DR
UNIT 2
ARLINGTON, MA 02474

RANNEY ROGER ERIC
6 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

MEI KATHY XIUWEN
32 ARCOLA ST
LEXINGTON, MA 02420

KIM KYUNGSANG
SONG DU RI
6 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

RENDA CATHERINE A/
BRIGHTMAN FAMILY REALTY
765 PLACID LAKE DR
OSPREY, FL 34229

MACAULEY LYNNE A
BROWN ROBERT J
6 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

ZHANG YANFANG
CUI JIKE
78 MAPLE ST
BELMONT, MA 02478

PERKINS ELLIOTT W &
TRS/ PERKINS FAMILY
17 STEEPLE CHASE CIRCLE
WESTFORD, MA 01886

DAWSON MATTHEW
7 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

GIOVINAZZO EMMA
7 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

MUSE CAROLYN M & JAMES A
1 PONDEROSA DR
PELHAM, NH 03076

AUSTIN ALEXANDER B
7 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

JANTZ JOAN EDITH/
JOAN EDITH JANTZ
64 GRAY ST
ARLINGTON, MA 02476

FARRELL MICHAEL W
STEIN BRITTANY T
7 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

MAUGEL NATHAN/JENNIFER
60 MUNROE DR
EAST HAMPSTEAD, NH 03826

SHIU PLACID K
19 GRANT PL
LEXINGTON, MA 02420

MUTCH JESSICA E/ TRUSTEE
JESSICA E MUTCH
21 DEAN ST
BELMONT, MA 02478

SIEGEL JULES
1010 WALTHAM ST APT 295
LEXINGTON, MA 02421

ZHANG ZHENZHEN &
CHEN KUN
58 CRESTVIEW RD
BELMONT, MA 02478

SWARTS HEIDI
7 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

LEXINGTON REALTY
PO BOX 134
LEXINGTON, MA 02420

JONAS MICHAEL
8 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02476

RAHMATPOUR SOHAILA--ETAL
NAKHAEE HAMID
20 OVERBROOK DRIVE
WELLESLEY, MA 02482

MILLER CHERYL S
8 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

KNIGHT WILL
8 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

TCHOUL SVIATOSLAV
TCHOUL OKSANA & MAXIM
8 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

NADJARIAN VATCHE
8 COLONIAL VILLAGE DR
UNIT 4
ARLINGTON, MA 02474

KING ALLISON J
32 RIVER ST
APT 2
CAMBRIDGE, MA 02139

HUEY JEFFREY K
15 NORTH BEACON ST
UNIT 507
ALLSTON, MA 02134

SHEEHAN KEVIN/ANDREA
228 FOX HILL RD
BURLINGTON, MA 01803

RUSSO ANMARIE
8 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

LIU QING
LI SHUANGLIAN
8 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

SHEEHAN DANIEL
GOODWIN-SHEEHAN DESIREE
9 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

PRESTON DIANE
186 NEWPORT ST
ARLINGTON, MA 02476

VALDETTARO VERONIQUE A
9 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

FLEMING ELLEN T
9 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

NEWMARK GERRY G
9 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

ELBANNAN SAMAA
39 PINE HILL RD
BEDFORD, MA 01730

DONOVAN JOANNE
9 COLONIAL VILLAGE DR #14
ARLINGTON, MA 02474

LAI RALPH W M & CINDY S
28 CORNERSTONE CT
DOYLESTOWN, PA 18901

WANG PINGLANG & YING
35 SKYLINE DR
STATEN ISLAND, NY 10304

ZHANG YANFANG &
CUI JIKE
78 MAPLE ST
BELMONT, MA 02478

SHINGU IKUE
9 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

MAC INNES PATRICIA
32 ST CATHERINE RD
NORWOOD, MA 02062

SUGRUE TERESA ETAL/
JTZ REALTY TRUST
281 STEARNS RD
MARLBOROUGH, MA 01752

TOWN OF ARLINGTON-PARK
730 MASS AVE
ARLINGTON, MA 02476

VENTURA SALVATORE &
VENTURA BRIGITTE
1491 MASS AVE
ARLINGTON, MA 02476

ARLINGTON HOUSING
DRAKE VILLAGE
730 MASS AVE
ARLINGTON, MA 02476

CALLAGHAN OWEN & JESSICA
4 WESTMORELAND AVE
ARLINGTON, MA 02474

VERDERESE JOHN T
239 LOWELL STREET
ARLINGTON, MA 02474

WYATT PATRICIA L
243 LOWELL STREET
ARLINGTON, MA 02474

ENG DAVID H
CANTY ANDREA M
3 WESTMORELAND AVE
ARLINGTON, MA 02474

LAMONT STUART & BARBARA
221 LOWELL STREET
ARLINGTON, MA 02474

MURRAY MICHAEL S &
219 LOWELL STREET
ARLINGTON, MA 02474

STROK GAVIN M
STROK MARIE-CAROLINE
7 WEST COURT TERR
ARLINGTON, MA 02474

MARTENS CHINA L
MARTENS SIEGFRIED
207 LOWELL STREET
ARLINGTON, MA 02474

SALOCKS JEFFREY D--ETAL
STAFFORD SHARON L
203 LOWELL STREET
ARLINGTON, MA 02474

GETTLER JUSTIN B & HOLLY
197 LOWELL ST
ARLINGTON, MA 02474

GALVIN ANNE M
255 LOWELL ST
ARLINGTON, MA 02474

PLANT SUSAN W
CHO DANYUL Y
257 LOWELL STREET
ARLINGTON, MA 02474

PLANT SUSAN W
CHO DANYUL Y
257 LOWELL STREET
ARLINGTON, MA 02474

PHAN DIA MINH
YAO GRACE
261 LOWELL STREET
ARLINGTON, MA 02474

CHARLIER-MATTHEWS
KOSMATKA KRISTOPHER
265 LOWELL ST
ARLINGTON, MA 02474

QUINN ARIANNA ISABELLA
QUINN LUKE JOSEPH
269 LOWELL ST
ARLINGTON, MA 02474

GEISSLER GARY J
1 LOWELL STREET
LEXINGTON, MA 02420

ALLEN THOMAS J &
SENESE MARGARET D
251 LOWELL STREET
ARLINGTON, MA 02474



LEXINGTON

- Places by Category
- Police Station
 - Fire Station
 - School
 - Library
 - Public Works
 - Recreation - Facilities
 - Recreation - Fields Courts
 - Recreation - Fields Courts
 - Open Space: Conservation
 - Open Space - Minuteman
 - Open Space - Labels
 - Open Space
 - Town, State, or Private
 - Other Town Owned
 - MA Highways
 - Interstate
 - US Highway
 - Numbered Routes
 - Abutting Towns
 - Town Boundary
 - Parcels
 - Buildings
 - Cemetery - Roads
 - Road1
 - Road2
 - Road3
 - Road4
 - Pavement Markings
 - Impervious Surface - For B
 - Street
 - Sidewalk
 - Street Island
 - Driveway
 - Parking Lot
 - Bike Path
 - Roads - For Large Scale (f
 - Roads - For Small Scale (f
 - Major Road
 - Local Road
 - Master Plan Base Map - M
 - Water Line
 - Water Body

The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.

0 400 800 ft

Printed on 12/20/2021 at 12:12 PM

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Appendix C REQUEST FOR VARIANCE UNDER ARLINGTON WETLANDS BYLAW



Appendix D PHOTO SHEETS



ARLINGTON RECREATION DEPARTMENT HURD FIELD EXISTING CONDITIONS PHOTO SHEET



Photo 1: The Mean Annual High-Water Line and Bank of Mill Brook are coincidental.



Photo 2: Mill Brook looking downstream (east).



Photo 3: Typical Bank (right Bank) of Mill Brook on the subject property. Looking east.



Photo 4: Mill Brook downstream of 4 concrete culverts that are located under the walking path to the dam and reservoir.



ARLINGTON RECREATION DEPARTMENT HURD FIELD EXISTING CONDITIONS PHOTO SHEET

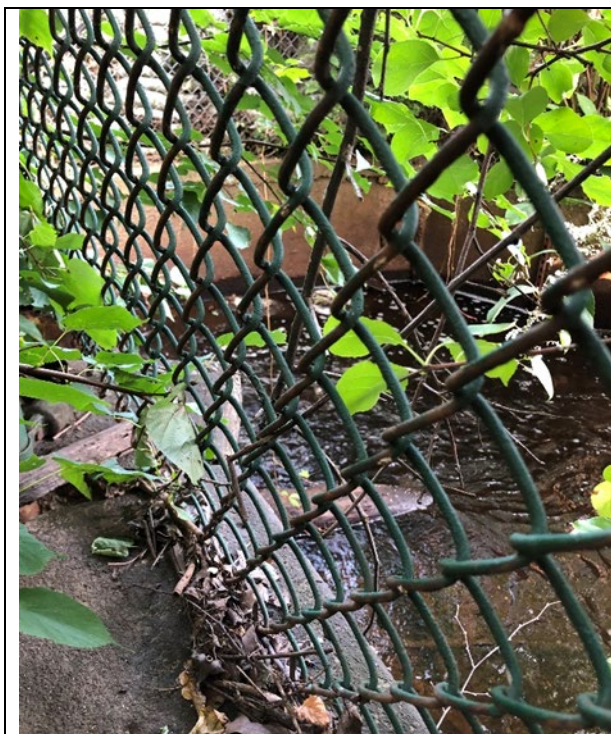


Photo 5: Mill Brook at location where it takes a 90 ° turn to the south, near the eastern property line.



Photo 6: The Banks of Mill Brook are stone and concrete-lined at property line to east.



Photo 7: Overview of existing ballfields. Riverfront Area, Bordering Land Subject to Flooding, Adjacent Upland Resource Areas. Looking east.



Photo 8: Existing pedestrian footpath. Looking west toward parking lot. Riverfront Area and Adjacent Upland Resource Area.





Photo 9: Mill Brook is located behind the fence on the eastern boundary of the ballfield and runs south/southwest through a human-made channel. Looking north/northeast. General location of proposed infiltration basin for stormwater management.



Appendix E PROJECT PLANS





TOWN OF ARLINGTON

HURD FIELD RENOVATIONS

NOTICE OF INTENT

ARLINGTON, MA 02476
PROJECT NO. 210801935

JANUARY 6, 2022

OWNER

TOWN OF ARLINGTON
RECREATION DEPARTMENT
422 SUMMER ST. ARLINGTON, MA 02474

LANDSCAPE ARCHITECT/CIVIL ENGINEER

STANTEC PLANNING AND LANDSCAPE ARCHITECTURE
226 CAUSEWAY STREET - FLOOR 6
BOSTON, MA 02114

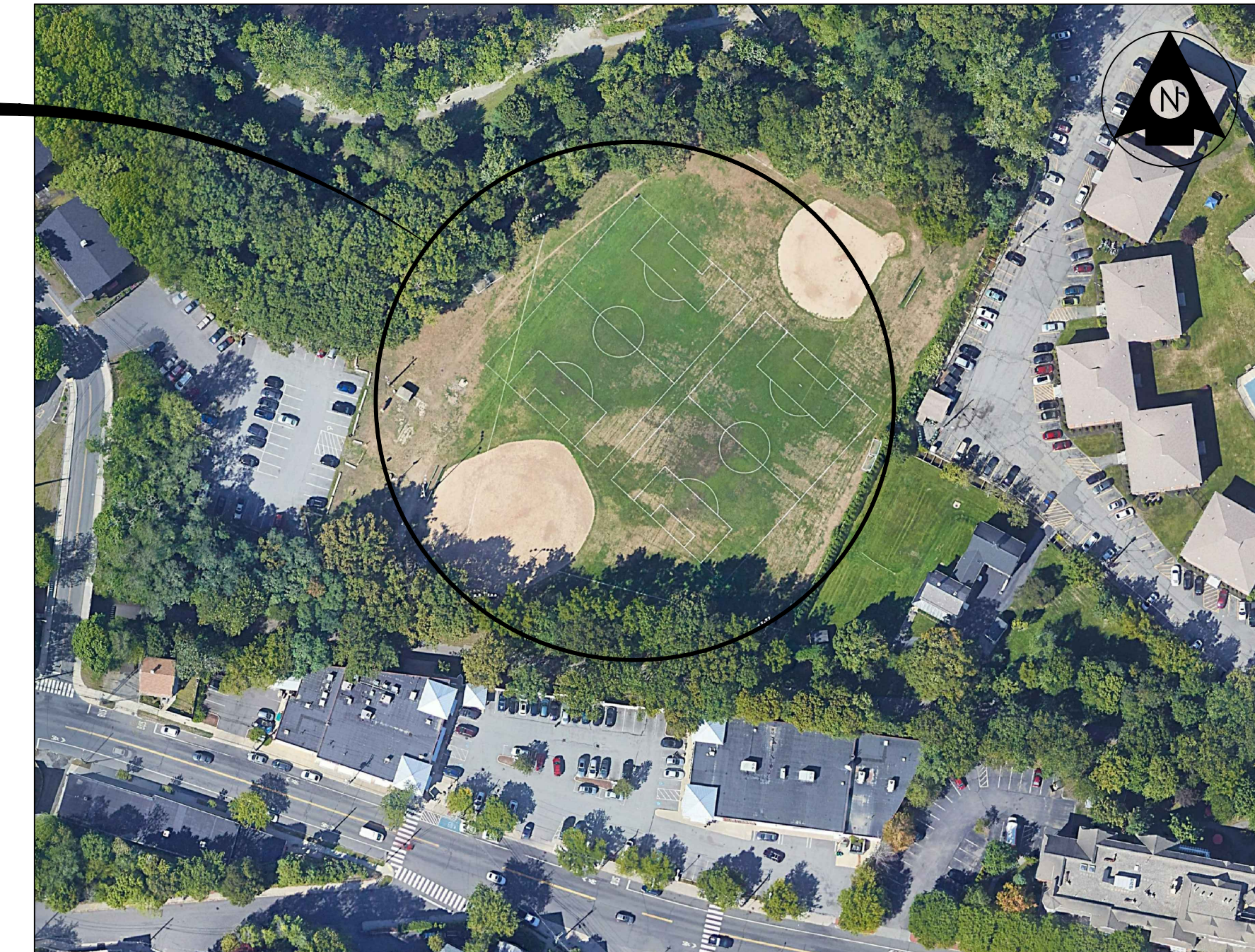
IRRIGATION DESIGNER

IRRIGATION CONSULTING
20 MERRIT PARKWAY - 2ND FLOOR
NASHUA, NH 03062

SURVEYOR

PRECISION LAND SURVEYING, INC.
32 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772

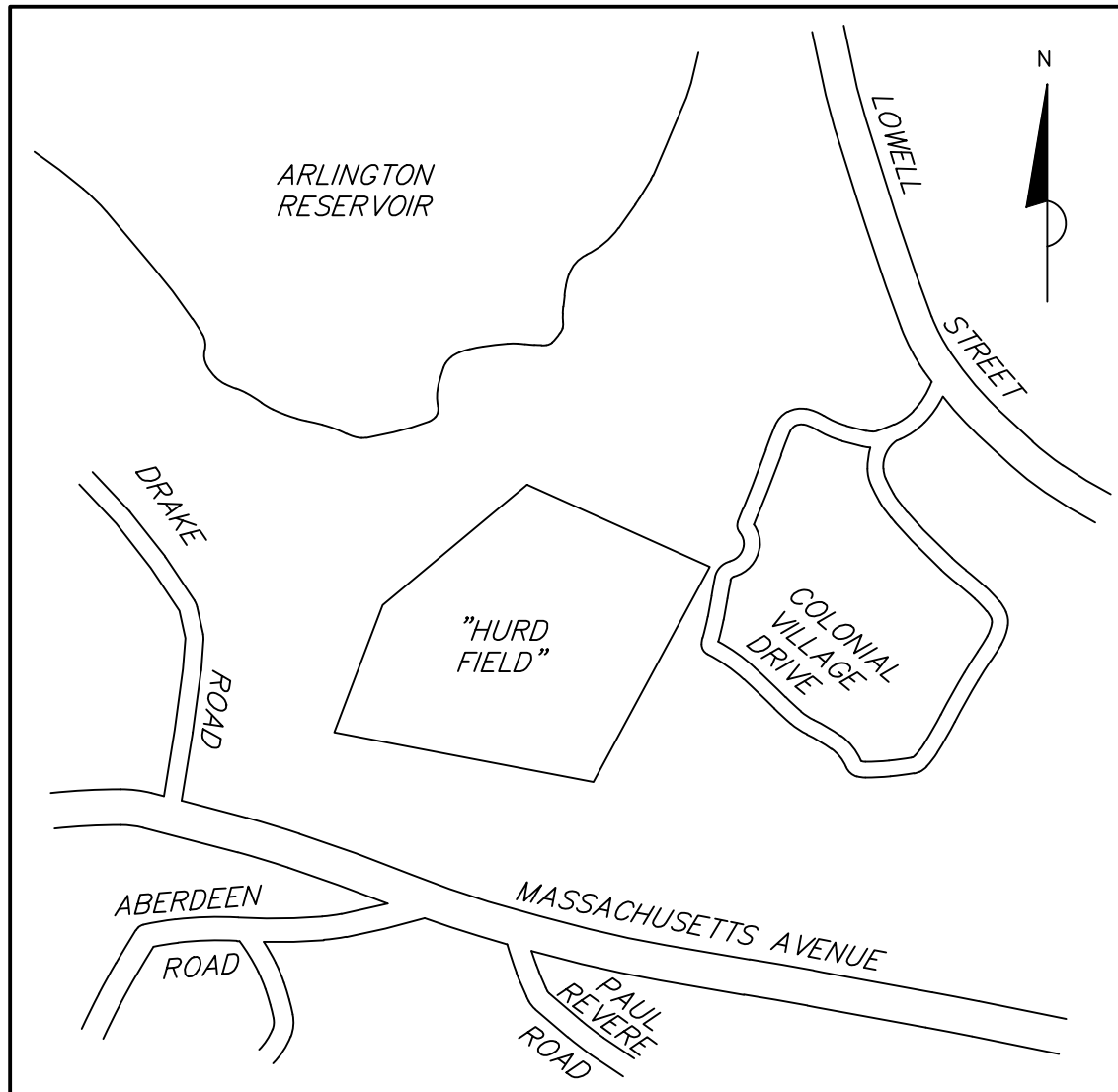
PROJECT LOCATION



VICINITY MAP
NOT TO SCALE

INDEX OF SHEETS

SHEET NO.	TITLE
	COVER SHEET
EX-1.0	EXISTING CONDITIONS PLAN
L-3	MATERIALS PLAN / PROPOSED WORK
L-4	GRADING AND SEDIMENTATION CONTROL PLAN
L-5	SEED AND SOD PLAN / PROPOSED FINAL CONDITIONS
L-6.1	EROSION AND SEDIMENTATION CONTROL / BMP DETAILS
L-6.2	DETAILS II

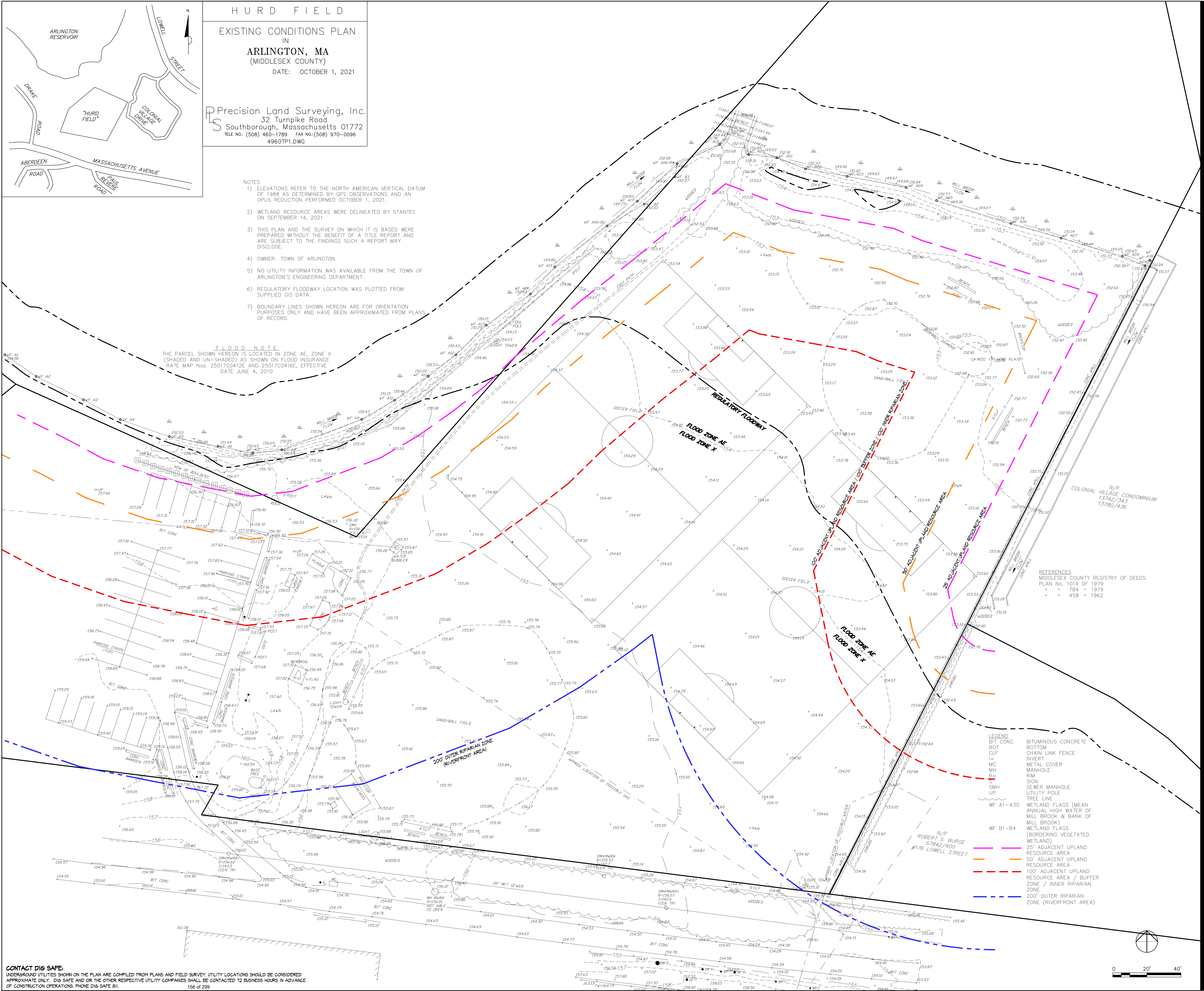


HURD FIELD
EXISTING CONDITIONS PLAN
IN
ARLINGTON, MA
(MIDDLESEX COUNTY)
DATE: OCTOBER 1, 2021

Precision Land Surveying, Inc.
32 Turnpike Road
Southborough, Massachusetts 01772
TEL NO: (508) 460-1789 FAX NO: (508) 970-0096
4960TP1.DWG

- NOTES
- 1) ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS DETERMINED BY GPS OBSERVATIONS AND AN OPUS REDUCTION PERFORMED OCTOBER 1, 2021.
 - 2) WETLAND RESOURCE AREAS WERE DELINEATED BY STANTEC ON SEPTEMBER 14, 2021.
 - 3) THIS PLAN AND THE SURVEY ON WHICH IT IS BASED WERE PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE SUBJECT TO THE FINDINGS SUCH A REPORT MAY DISCLOSE.
 - 4) OWNER: TOWN OF ARLINGTON
 - 5) NO UTILITY INFORMATION WAS AVAILABLE FROM THE TOWN OF ARLINGTON'S ENGINEERING DEPARTMENT.
 - 6) REGULATORY FLOODWAY LOCATION WAS PLOTTED FROM SUPPLIED GIS DATA.
 - 7) BOUNDARY LINES SHOWN HEREON ARE FOR ORIENTATION PURPOSES ONLY AND HAVE BEEN APPROXIMATED FROM PLANS OF RECORD.

FLOOD NOTE
THE PARCEL SHOWN HEREON IS LOCATED IN ZONE AE, ZONE X (SHADED AND UN-SHADED) AS SHOWN ON FLOOD INSURANCE RATE MAP NOS. 25017C0412E AND 25017C0416E, EFFECTIVE DATE JUNE 4, 2010



REFERENCES
MIDDLESEX COUNTY REGISTRY OF DEEDS
PLAN No. 1014 OF 1979
" 784 " 1979
" 458 " 1962

- LEGEND
- BIT CONC
 - BOT
 - CLF
 - INV
 - MC
 - MH
 - RM
 - SEWER MANHOLE
 - UTILITY POLE
 - TREE LINE
 - WF A1-A30
 - WF B1-B4
 - BITUMINOUS CONCRETE
 - BOTTOM CHAIN LINK FENCE
 - INVERT
 - METAL COVER
 - MANHOLE
 - RIM
 - SEWER MANHOLE
 - UTILITY POLE
 - WETLAND FLAGS (MEAN ANNUAL HIGH WATER OF MILL BROOK & BANK OF MILL BROOK)
 - WETLAND FLAGS (BORDERING VEGETATED WETLAND)
 - 25' ADJACENT UPLAND RESOURCE AREA
 - 50' ADJACENT UPLAND RESOURCE AREA
 - 100' ADJACENT UPLAND RESOURCE AREA / BUFFER ZONE / INNER RIPARIAN ZONE
 - 200' OUTER RIPARIAN ZONE (RIVERFRONT AREA)



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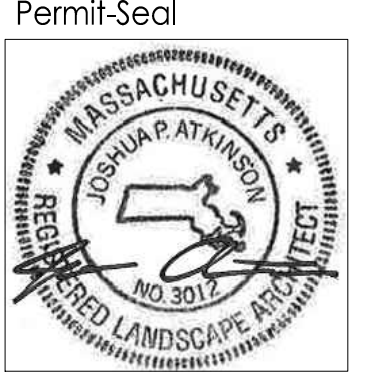
IRRIGATION DESIGNER
Irrigation Consulting
20 Merritt Parkway - 2nd Floor
Nashua, NH 03062

CLIENT/OWNER
Town of Arlington
Recreation Department
422 Summer St.
Arlington, MA 02474

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File Name: _____
Dwn: _____ Chkd: _____ Dgn: _____
MWD:YY



Client/Project
TOWN OF ARLINGTON
HURD FIELD RENOVATIONS
Arlington, MA

Title
EXISTING CONDITIONS PLAN
Project No. 210801935
Sheet 1 of 6
1" = 20'
Scale
Drawing No. EX-1.0

CONTACT DIS SAFE.
UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE COMPILED FROM PLANS AND FIELD SURVEY. UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY. DIS SAFE AND OR THE OTHER RESPECTIVE UTILITY COMPANIES SHALL BE CONTACTED 12 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS. PHONE DIS SAFE BILL.
156 OF 299

LAYOUT AND MATERIAL NOTES

1. EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY PRECISION LAND SURVEYING, INC. 32 TURNPIKE ROAD, SOUTHBOROUGH, MA. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS DETERMINED BY GPS OBSERVATIONS AND AN OPUS REDUCTION PERFORMED OCTOBER 1, 2021.
2. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON THE SURVEY REFERENCED ABOVE. THE CONTRACTOR SHALL NOTIFY DISSAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
3. CONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
4. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
5. ALL WORK CONDUCTED WITHIN PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF XXXXX AND THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT).
6. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND ALL DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, UTILITY ENTRANCE LOCATIONS, WALL PACKS, CONCRETE DOOR PADS, ROOF DRAINS, ETC.
7. ACCESSIBLE CURB RAMPS SHALL BE PER THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, WHICHEVER IS MORE STRINGENT.
8. THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN: ALL DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING. ALL DIMENSIONS ARE TO FACE OF CURB AT GUTTER LINE. ALL DIMENSIONS ARE TO CENTER OF PAVEMENT MARKINGS. ALL TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.
9. FOR LAYOUT AND DIMENSIONING OF BUILDINGS, SEE ARCHITECTURAL DRAWINGS.
10. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.
11. ALL NEWLY SODDED AREAS WITHIN LIMIT OF WORK AND PLANTING BED AT ENTRY TO BE IRRIGATED. CONTRACTOR SHALL COORDINATE WITH SCHOOL TO VERIFY LOCATIONS OF EXISTING IRRIGATION MAIN.

LEGEND

- PROPERTY LINE
--- LIMIT OF WORK
--- ATHLETIC LIGHT POLE
--- LOAM AND SOD
--- POROUS ASPHALT
--- MEMORIAL PLAQUE
--- CHAIN LINK FENCE (CLF)
--- BACKSTOP
--- BENCH
--- PICNIC TABLE
--- BOTTLE FILL STATION
--- FLAG POLE
--- BOLLARD
--- BIKE RACK
--- GUARD RAIL
--- TRASH AND RECYCLING RECEPTACLES
- 25' ADJACENT UPLAND RESOURCE AREA
--- 50' ADJACENT UPLAND RESOURCE AREA
--- 100' ADJACENT UPLAND RESOURCE AREA / 100' BUFFER ZONE / 100' INNER RIPARIAN ZONE
--- 200' OUTER RIPARIAN ZONE (RIVERFRONT AREA)



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Client/Project
TOWN OF ARLINGTON

HURD FIELD RENOVATIONS

Arlington, MA

Title

MATERIALS PLAN / PROPOSED WORK

Project No. 210801935
Sheet 2 of 6
Drawing No. L-3

1" = 20'
Scale

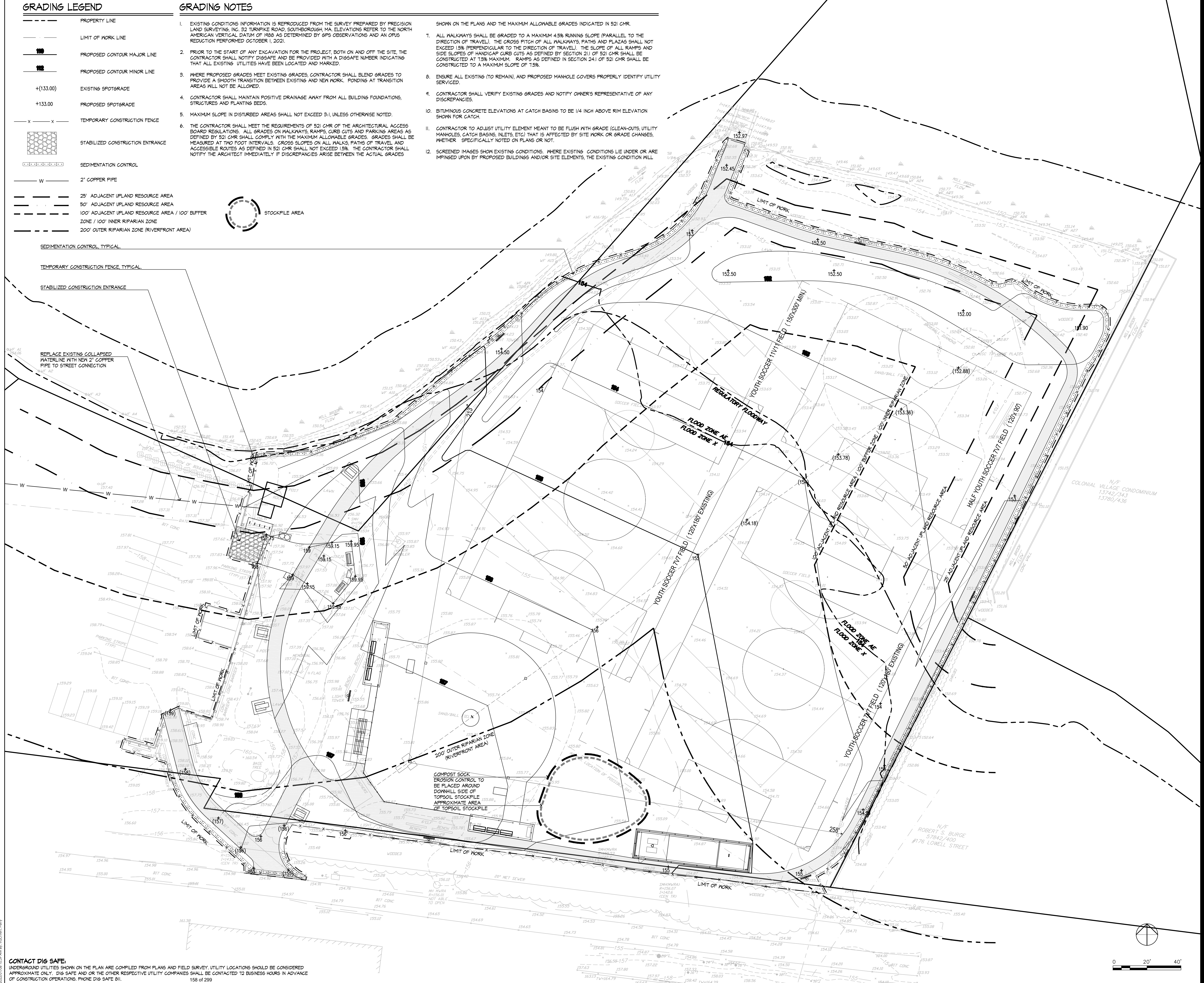
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2022.01.04 12:55 PM MPT, Internal Area Materials.dwg
ORIGINAL SHEET - ARCHITECT

GRADING LEGEND

- PROPERTY LINE
- LIMIT OF WORK LINE
- PROPOSED CONTOUR MAJOR LINE
- PROPOSED CONTOUR MINOR LINE
- + (133.00) EXISTING SPOTGRADE
- +133.00 PROPOSED SPOTGRADE
- x x TEMPORARY CONSTRUCTION FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- SEDIMENTATION CONTROL
- W 2" COPPER PIPE
- 25' ADJACENT UPLAND RESOURCE AREA
- 50' ADJACENT UPLAND RESOURCE AREA
- 100' ADJACENT UPLAND RESOURCE AREA / 100' BUFFER ZONE / 100' INNER RIPARIAN ZONE
- 200' OUTER RIPARIAN ZONE (RIVERFRONT AREA)

GRADING NOTES

- EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY PRECISION LAND SURVEYING, INC. 32 TURNPIKE ROAD, SOUTHBOROUGH, MA. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS DETERMINED BY GPS OBSERVATIONS AND AN OPUS REDUCTION PERFORMED OCTOBER 1, 2021.
- PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT, BOTH ON AND OFF THE SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
- WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES AND PLANTING BEDS.
- MAXIMUM SLOPE IN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MEET THE REQUIREMENTS OF 521 CMR OF THE ARCHITECTURAL ACCESS BOARD REGULATIONS. ALL GRADES ON WALKWAYS, RAMPS, CURB CUTS AND PARKING AREAS AS DEFINED BY 521 CMR SHALL COMPLY WITH THE MAXIMUM ALLOWABLE GRADES. GRADES SHALL BE MEASURED AT TWO FOOT INTERVALS. CROSS SLOPES ON ALL WALKS, PATHS OF TRAVEL AND ACCESSIBLE ROUTES AS DEFINED IN 521 CMR SHALL NOT EXCEED 1:5%. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF DISCREPANCIES ARISE BETWEEN THE ACTUAL GRADES SHOWN ON THE PLANS AND THE MAXIMUM ALLOWABLE GRADES INDICATED IN 521 CMR.
- ALL WALKWAYS SHALL BE GRADED TO A MAXIMUM 4.5% RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL). THE CROSS PITCH OF ALL WALKWAYS, PATHS AND PLAZAS SHALL NOT EXCEED 1:5% (PERPENDICULAR TO THE DIRECTION OF TRAVEL). THE SLOPE OF ALL RAMPS AND SIDE SLOPES OF HANDICAP CURB CUTS AS DEFINED BY SECTION 211 OF 521 CMR SHALL BE CONSTRUCTED AT 1:5% MAXIMUM. RAMPS AS DEFINED IN SECTION 241 OF 521 CMR SHALL BE CONSTRUCTED TO A MAXIMUM SLOPE OF 1:5%.
- ENSURE ALL EXISTING (TO REMAIN), AND PROPOSED MANHOLE COVERS PROPERLY IDENTIFY UTILITY SERVICED.
- CONTRACTOR SHALL VERIFY EXISTING GRADES AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
- BITUMINOUS CONCRETE ELEVATIONS AT CATCH BASINS TO BE 1/4 INCH ABOVE RIM ELEVATION SHOWN FOR CATCH.
- CONTRACTOR TO ADJUST UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN-OUTS, UTILITY MANHOLES, CATCH BASINS, INLETS ETC) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
- SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPOSED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL



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IRRIGATION DESIGNER
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Nashua, NH 03062

CLIENT/OWNER
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Recreation Department
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Client/Project
TOWN OF ARLINGTON

HURD FIELD RENOVATIONS

Arlington, MA

Title
GRADING AND SEDIMENTATION
CONTROL PLAN

Project No.
210801935

Sheet

1" = 20'

Scale

Drawing No.

3 of 6

L-4

PLANTING LEGEND

- EXISTING TREE
- LOAM AND SEED
- ATHLETIC FIELD CONSTRUCTION (SOD)
- LIMIT OF WORK
- 25' ADJACENT UPLAND RESOURCE AREA
- 50' ADJACENT UPLAND RESOURCE AREA
- 100' ADJACENT UPLAND RESOURCE AREA / 100' BUFFER
- ZONE / 100' INNER RIPARIAN ZONE
- 200' OUTER RIPARIAN ZONE (RIVERFRONT AREA)

LOAM AND SEED, TYPICAL

ATHLETIC FIELD CONSTRUCTION (SOD), TYPICAL



CONTACT DIS SAFE.

UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE COMPILED FROM PLANS AND FIELD SURVEY. UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY. DIS SAFE AND OR THE OTHER RESPECTIVE UTILITY COMPANIES SHALL BE CONTACTED 12 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS. PHONE DIS SAFE BILL.

159 OF 299



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By	Appd.	MWDD.YY

Permit-Seal



Client/Project
TOWN OF ARLINGTON

HURD FIELD RENOVATIONS

Arlington, MA

Title
SOD AND SEED PLAN / PROPOSED FINAL CONDITIONS

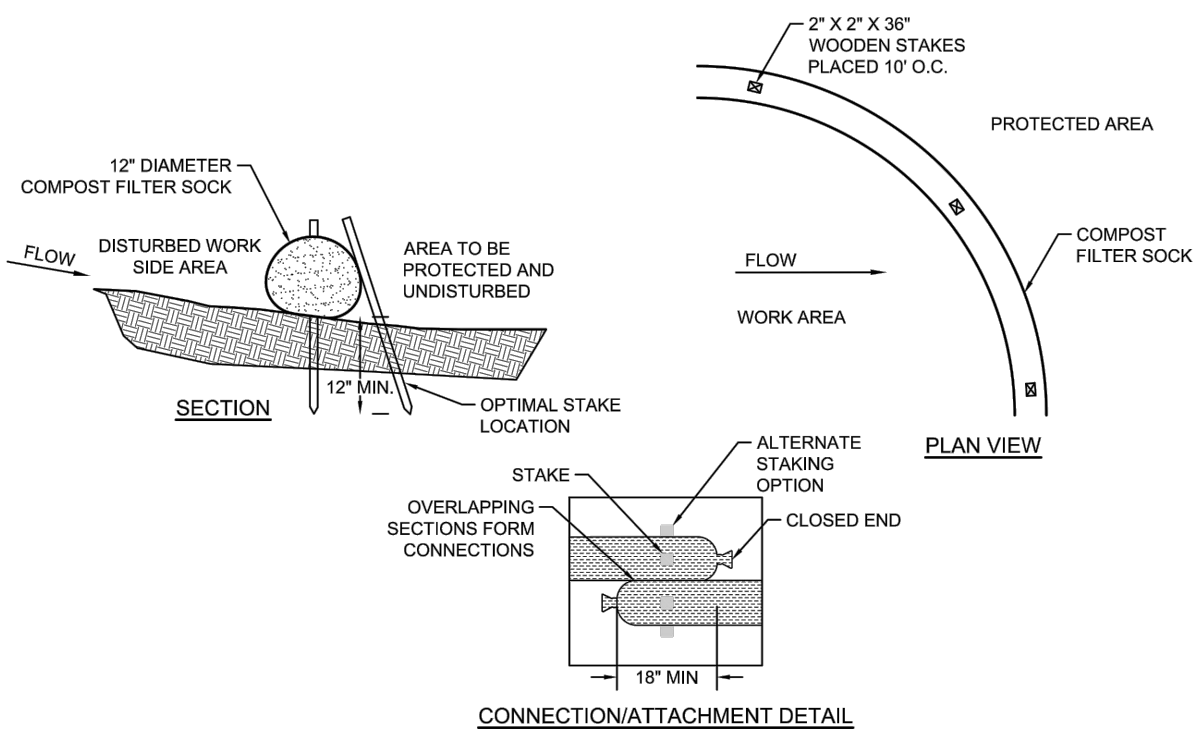
Project No.
210801935

Sheet

1" = 20'

Scale

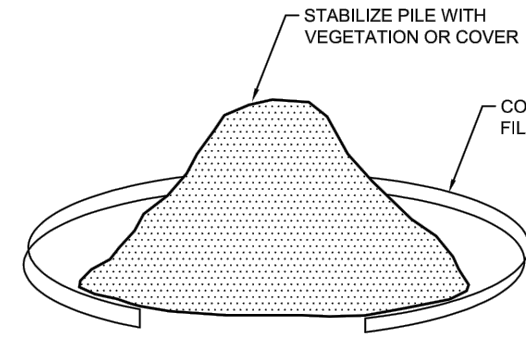
Drawing No.



- NOTES:**
- PREFABRICATED COMPOST SOCK SHALL BE FILTER SOCK OR APPROVED EQUIVALENT.
 - MATERIAL FOR SOCKS SHALL CONSIST OF SANITIZED MATURE COMPOST, FREE OF VIABLE WEED SEEDS AND FOREIGN DEBRIS SUCH AS GLASS AND PLASTIC. COMPOST SHALL BE IN SHREDDED OR GRANULAR FORM AND FREE FROM HARD LUMPS. IN ADDITION, NO KILN DRIED WOOD OR CONSTRUCTION DEBRIS SHALL BE ALLOWED. CONTRACTOR SHALL REFER TO MASSDOT SPECIFICATIONS M1.06.0 FOR MATERIAL SPECIFICATIONS.
 - SOCK SHALL CONSIST OF JUTE MESH OR OTHER APPROVED BIODEGRADABLE MATERIAL.
- PRACTICE: COMPOST FILTER SOCK:** A COMPOST FILTER SOCK IS A TYPE OF CONTAINED COMPOST FILTER BERM CONSISTING OF A MESH TUBE FILLED WITH COMPOSTED MATERIAL THAT IS PLACED PERPENDICULAR TO SHEET FLOW RUNOFF TO RETAIN SEDIMENT FROM DISTURBED AREAS. THE COMPOST FILTER SOCK ACTS AS A FILTER TO RETAIN SEDIMENT AND OTHER POLLUTANTS (E.G., SUSPENDED SOLIDS, NUTRIENTS) WHILE ALLOWING THE WATER TO FLOW THROUGH IT. COMPOST QUALITY MUST MEET AASHTO 2010 SPECIFICATIONS.
- INSTALLATION:** ONCE THE FILTER SOCK IS FILLED AND PUT IN PLACE, IT SHOULD BE ANCHORED TO THE SLOPE BY STAKES THROUGH THE CENTER OF THE SOCK AT REGULAR INTERVALS. ALTERNATIVELY, STAKES CAN BE PLACED ON THE DOWNSTREAM SIDE OF THE SOCK. THE ENDS OF THE FILTER SOCK SHOULD BE DIRECTED UPWARD TO PREVENT STORMWATER FROM RUNNING AROUND THE END OF THE TUBE. THERE SHOULD BE NO GAPS BETWEEN SEGMENTS AND THE SOCK ENDS MUST OVERLAP A MINIMUM OF 8 INCHES.
- MAINTENANCE:** SOCKS MUST BE INSPECTED FOR SEDIMENT ACCUMULATION. IF THERE IS EXCESSIVE PONDING BEHIND THE FILTER SOCK OR ACCUMULATED SEDIMENT REACHES THE TOP OF THE SOCK, AN ADDITIONAL SOCK SHOULD BE ADDED ON TOP OR IN FRONT OF THE EXISTING FILTER SOCK IN THESE AREAS. AN ADEQUATE RESERVE OF SOCKS MUST BE KEPT ON SITE AT ALL TIMES FOR EMERGENCY AND/OR ROUTINE REPLACEMENT. SOCKS SHALL BE REMOVED ONLY AFTER EXPOSED SOILS IN THE CONTRIBUTING DRAINAGE AREA ACHIEVE FINAL STABILIZATION. SEDIMENT ACCUMULATION MUST BE REMOVED ONCE IT HAS REACHED 1/3 OF THE EXPOSED HEIGHT OF THE SOCK.

1 COMPOST FILTER SOCK

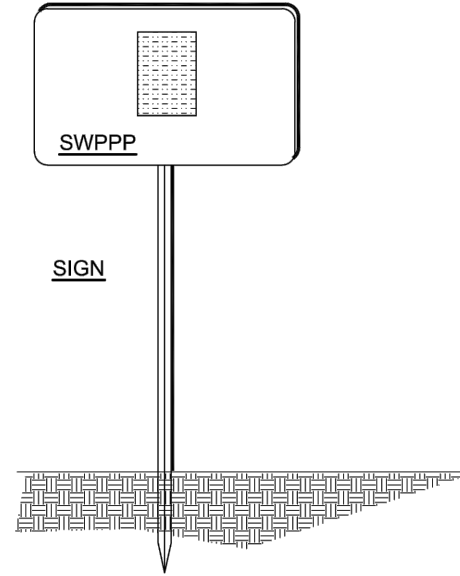
NOT TO SCALE



- NOTE:** STOCKPILES MUST BE PHYSICALLY SEPARATED FROM OTHER STORMWATER CONTROLS.
- SOIL STOCKPILES:** FOR ANY STOCKPILED OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, THE FOLLOWING MEASURES MUST BE FOLLOWED:
- LOCATE THE PILE OUTSIDE OF ANY NATURAL BUFFERS ESTABLISHED UNDER PART 2.2.1 AND PHYSICALLY SEPARATED FROM OTHER STORMWATER CONTROLS IMPLEMENTED IN ACCORDANCE WITH PART 2.2.
 - PROTECT FROM CONTACT WITH STORMWATER (INCLUDING RUN-ON) USING A TEMPORARY PERIMETER SEDIMENT BARRIER.
 - PROVIDE COVER OR APPROPRIATE TEMPORARY STABILIZATION TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE SEDIMENT DISCHARGE.
 - DO NOT HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE (UNLESS CONNECTED TO A SEDIMENT BASIN, SEDIMENT TRAP, OR SIMILARLY EFFECTIVE CONTROL), STORM DRAIN INLET, OR SURFACE WATER, AND
 - UNLESS INFEASIBLE, CONTAIN AND SECURELY PROTECT FROM WIND.

2 SOIL STOCKPILE CONTROL

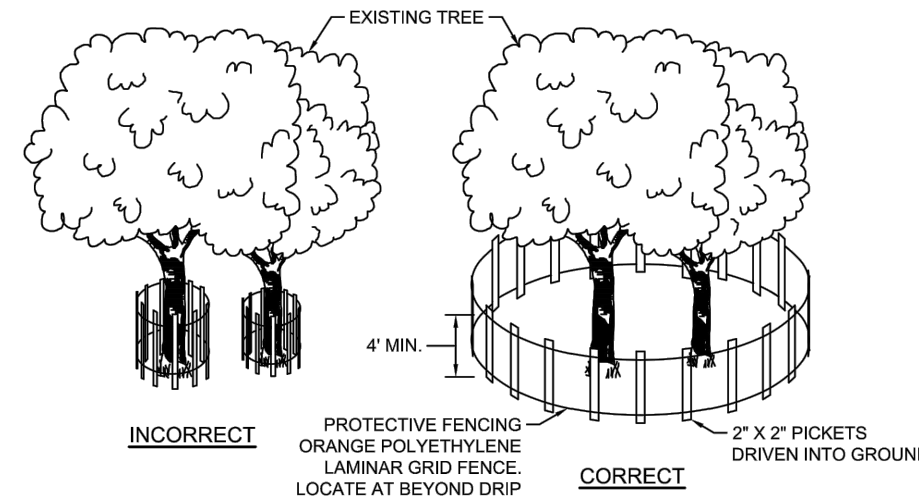
NOT TO SCALE



- NOTES:**
- CONSTRUCTION SITE NOTICE SHALL BE POSTED.
 - POSTING IS TO BE AT JOB SITE ENTRANCE, WHERE IT WILL BE VISIBLE AND LEGIBLE FROM THE PUBLIC WAY.
 - POSTING IS REQUIRED FROM THE DAY CONSTRUCTION ACTIVITIES START UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED.

3 JOB SITE PERMIT POSTING DETAIL

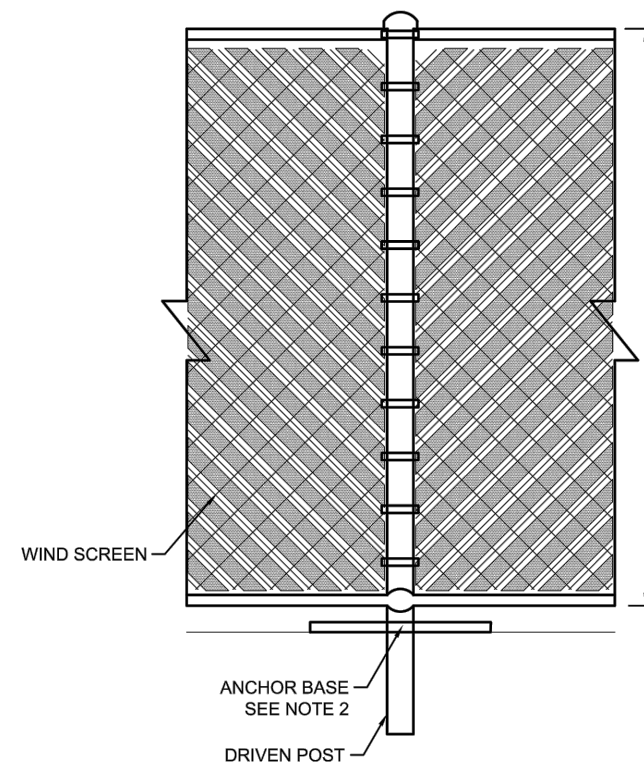
NOT TO SCALE



- NOTES:**
- TREE PROTECTION BARRIERS MUST BE PLACED AROUND TREES TO BE RETAINED WITHIN AN AREA WHERE LAND ALTERATION AND CONSTRUCTION ACTIVITIES WILL OCCUR. TREES TO REMAIN SHALL BE INDICATED ON THE PLANS.
 - TREE PROTECTION BARRIER MUST REMAIN IN PLACE UNTIL GRADING AND CONSTRUCTION ACTIVITY IS COMPLETE OR UNTIL COMMENCEMENT OF FINISH GRADING AND SOODING.
 - BARRIERS SHALL BE PLACED AROUND TREES AT THE DRIPLINE EXCEPT WHERE LAND ALTERATION OR CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE DRIPLINE.
 - THE DRIPLINE OF A TREE IS THE IMAGINARY VERTICAL LINE THAT EXTENDS DOWNWARD FROM THE OUTERMOST TIPS OF THE TREE'S BRANCHES TO THE GROUND.
 - AREAS SURROUNDED BY THE TREE PROTECTION BARRIERS SHALL BE PROTECTED FROM VEGETATION REMOVAL, PLACEMENT OF SOIL, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND.
 - ALL TREE ROOTS WITHIN AREA TO BE GRADED AND ORIGINATING FROM A PROTECTED TREE SHALL BE SEVERED CLEANLY AT THE LIMITS OF THE PROTECTED AREA.
 - ALL TREE PRUNING AND TRIMMING ON ANY TREE TO BE RETAINED SHALL BE PERFORMED BY AN ARBORIST CERTIFIED BY THE AMERICAN SOCIETY OF ARBORICULTURE (ASA).
 - 2'X2' TREE PROTECTION SIGNS SPACED A MINIMUM OF ONE SIGN EVERY 100' SHALL CONTAIN THE WORKING TREE PROTECTION ZONE - KEEP OUT

4 TREE PROTECTION BARRIER

NOT TO SCALE

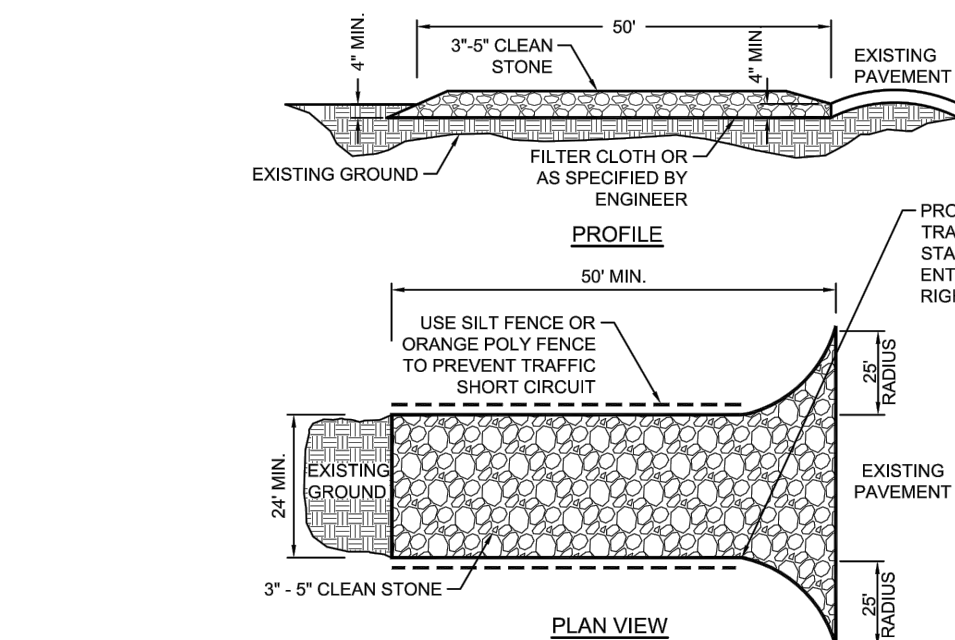


- NOTES:**
- THE CONTRACTOR SHALL PROVIDE A 6' HIGH TEMPORARY CONSTRUCTION FENCE WITH DUST SCREEN THAT IS NON-TRANSPARENT AND TIGHTLY FASTENED TO THE FENCE. DUST SCREEN LOCATIONS SHALL BE COORDINATED WITH OWNER.
 - THE FENCE SHALL BE POST DRIVEN OR ANCHOR BASE AND CAPABLE OF WITHSTANDING HIGH WINDS WITHOUT MOVEMENT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO EXISTING CONDITIONS RESULTING PROPERTY DAMAGE FROM THE FENCE INSTALLATION.

PRACTICE: CONSTRUCTION FENCE WITH WINDSCREEN
ATTACH WINDSCREEN SECURELY TO FENCE. REATTACH AS NECESSARY TO MAINTAIN FABRIC AGAINST FENCE. DO NOT LEAVE GAPS IN SCREENING. REPLACE WINDSCREEN FABRIC IF IT APPEARS RIPPED OR TORN.

5 CONSTRUCTION FENCE WITH WIND SCREEN

NOT TO SCALE



- NOTES:**
- STONE - USE COARSE AGGREGATE (3/4" STONE).
 - LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 60 FEET.
 - THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
 - WIDTH - NOT LESS THAN FULL WIDTH OF ALL PORTS OF INGRESS OR EGRESS.
 - WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CURBED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT PAVED ROAD SURFACES MUST BE REMOVED IMMEDIATELY.

PRACTICE: STABILIZED CONSTRUCTION EXIT POINTS: IN ORDER TO MINIMIZE TRACK OUT FROM VEHICLES, STABILIZED CONSTRUCTION EXITS MUST BE INSTALLED AT THE LOCATION WHERE VEHICLES WILL EXIT THE SITE. THE CONTRACTOR MUST RESTRICT VEHICLE USE TO THE PROPOSED DESIGN EXIT LOCATIONS. ADDITIONAL CONTROLS TO REMOVE SEDIMENT FROM TIRES MAY BE REQUIRED IF TRACKING OCCURS. SUCH METHODS MAY INCLUDE WHEEL WASH STATIONS, ROLLER STRIPS OR ROLLER PLATES. NO VISIBLE SIGNS OF SOIL TRACKING FROM VEHICLES SHOULD BE PRESENT ON PUBLIC ROADWAYS EXITING THE SITE.

INSTALLATION: THE STABILIZED CONSTRUCTION EXITS WILL CONSIST OF AN 8 INCH LAYER OF THREE TO FIVE INCH (3"-5") STONE, PLACED OVER A LAYER OF GEOTEXTILE FABRIC (IN ORDER TO PROVIDE SEPARATION FROM THE UNDERLYING SOIL AND PREVENT THE STONE FROM BEING GROUND DOWN INTO THE SOIL). THE STABILIZED CONSTRUCTION EXIT MUST BE WIDE ENOUGH TO COVER THE ENTIRE WIDTH OF THE EXIT AND IT SHOULD BE PLACED WHERE IT MEETS THE ROADWAY TO ACCOMMODATE LONGER CONSTRUCTION VEHICLES. THE STABILIZED CONSTRUCTION EXIT MUST BE LONG ENOUGH TO ALLOW MUD AND SEDIMENT TO BECOME DISLODGED FROM VEHICLE TIRES, AND A MINIMUM OF FIFTY FEET (50') IN LENGTH.

MAINTENANCE: DURING THE COURSE OF CONSTRUCTION THE STABILIZED CONSTRUCTION EXIT WILL BECOME FILLED WITH ACCUMULATED SEDIMENT AND/OR THE STONE WILL BECOME COMPACTED. THE CONTRACTOR MUST REPAIR THE EXIT AS NECESSARY BY REMOVING ACCUMULATED SEDIMENT, REPLACING THE STONE OR BACK-FILLING THE STONE TO REFRESH IT. IF TRACKING OF SEDIMENT OCCURS, THE CONTRACTOR MUST REMOVE DEPOSITED SEDIMENT BY COMPLYING WITH THE FOLLOWING REQUIREMENTS:

- WHERE TRACK-OUT OF SEDIMENT OCCURS FROM THE SITE ONTO OFF-SITE STREETS, SIDEWALKS, AND OTHER PAVED AREAS, DEPOSITS MUST BE SWEEP, SHOVELED, OR VACUUMED TO REMOVE TRACK-OUT MATERIAL OR OTHER SEDIMENT DEPOSITS BY THE END OF THE SAME WORK DAY IN WHICH THE TRACK OUT IS DISCOVERED.
- HOUSING OR SWEEPING TRACKED-OUT SEDIMENT INTO ANY STORMWATER CONVEYANCE, (UNLESS IT IS CONNECTED TO A SEDIMENT BASIN, SEDIMENT TRAP, OR SIMILARLY EFFECTIVE CONTROL), STORM DRAIN INLET, OR SURFACE WATER IS PROHIBITED.

6 STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

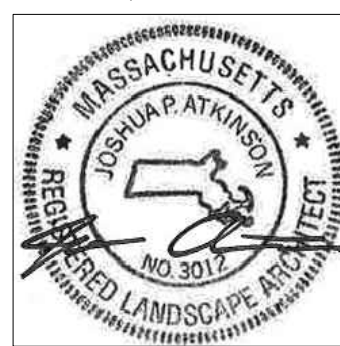
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NOTICE OF INTENT SUBMISSION	PT	JA	01.06.22
Issued	By	Appd.	MM/DD/YY

File Name:			
Dwn.	Chkd.	Dgn.	MM/DD/YY

Permit-Seal



Client/Project

TOWN OF ARLINGTON

HURD FIELD RENOVATIONS

Arlington, MA

Title

DETAILS I

Project No.

210801935

Scale

Sheet

Drawing No.

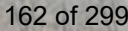
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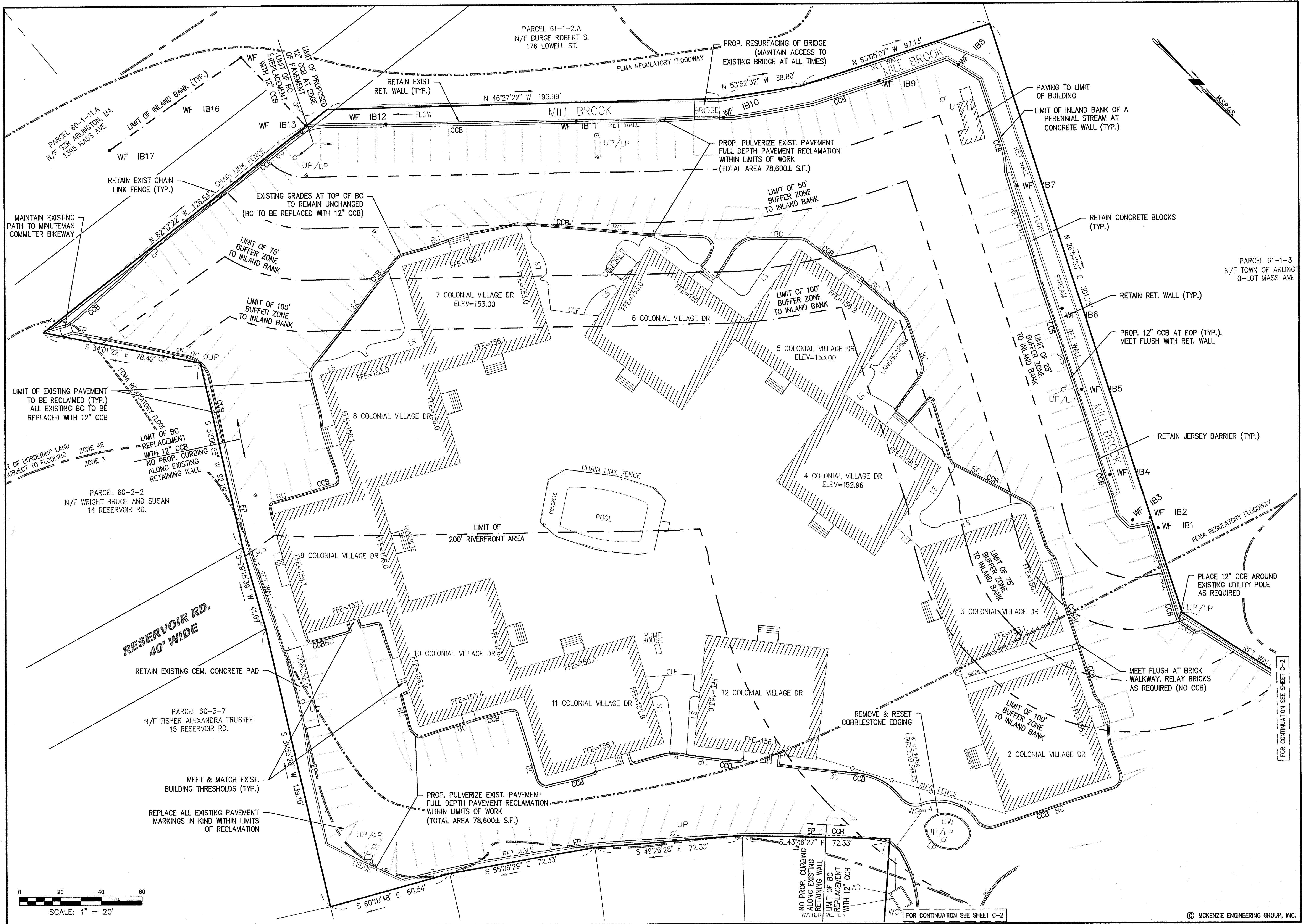
L-6.1



CLIENT/OWNER
Town of Arlington
Recreation Department
422 Summer St.
Arlington, MA 02474

-6.2





REV	DATE	DESCRIPTION	BY	APP
1				

PREPARED BY:
MEG
MCKENZIE ENGINEERING GROUP
Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
www.mckeng.com

PARKING LOT RECONSTRUCTION
COLONIAL VILLAGE DRIVE
(APN 061.A-1-1 THROUGH 061.A-12-12)
ARLINGTON, MASSACHUSETTS

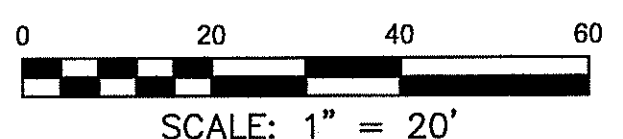
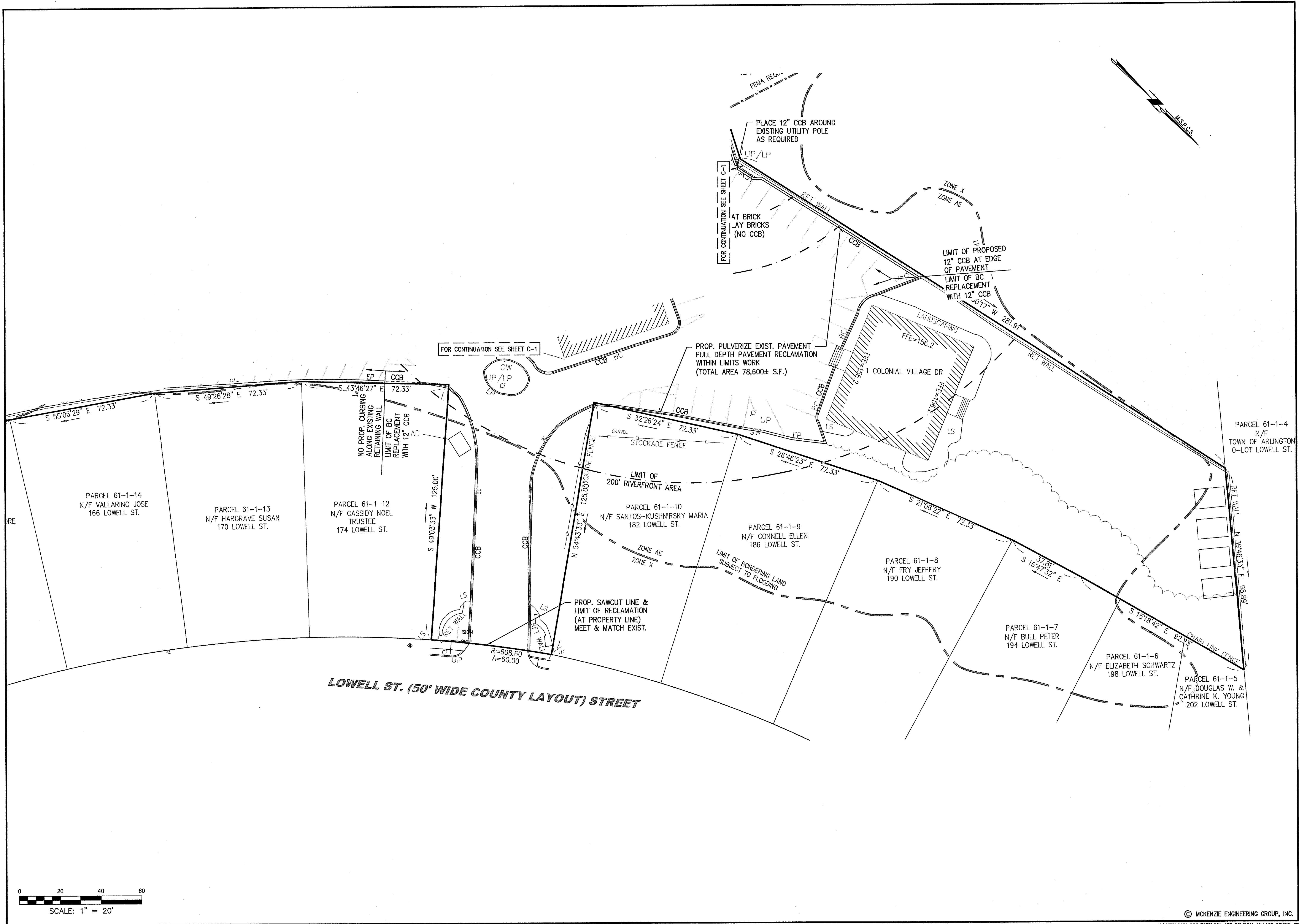
PROFESSIONAL ENGINEER:

APPLICANT:
Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, MA 02111

DRAWN BY: RPL
DESIGNED BY: AJC
CHECKED BY: BCM
APPROVED BY: BCM
DATE: 12/13/2021
SCALE: 1"=20'
PROJECT NO.: 221-155
DWG. TITLE: **SITE PLAN**

DWG. NO.: **C-1**

NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION	BY	APP
1				

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Norwell, MA 02061
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**PARKING LOT RECONSTRUCTION
COLONIAL VILLAGE DRIVE
(APN 061.A-1-1 THROUGH 061.A-12-12)
ARLINGTON, MASSACHUSETTS**

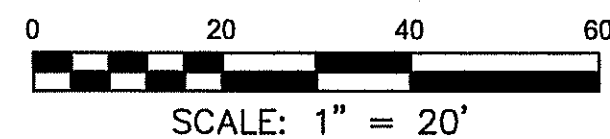
PROFESSIONAL ENGINEER:

APPLICANT:
Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, MA 02111

NOT FOR CONSTRUCTION

DRAWN BY:	RPL
DESIGNED BY:	AJC
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	12/13/2021
SCALE:	1" = 20'
PROJECT NO.:	221-155
DWG. TITLE:	SITE PLAN
DWG. NO.:	C-2

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**PARKING LOT RECONSTRUCTION
COLONIAL VILLAGE DRIVE
(APN 061-A-1 THROUGH 061-A-12-12)
ARLINGTON, MASSACHUSETTS**

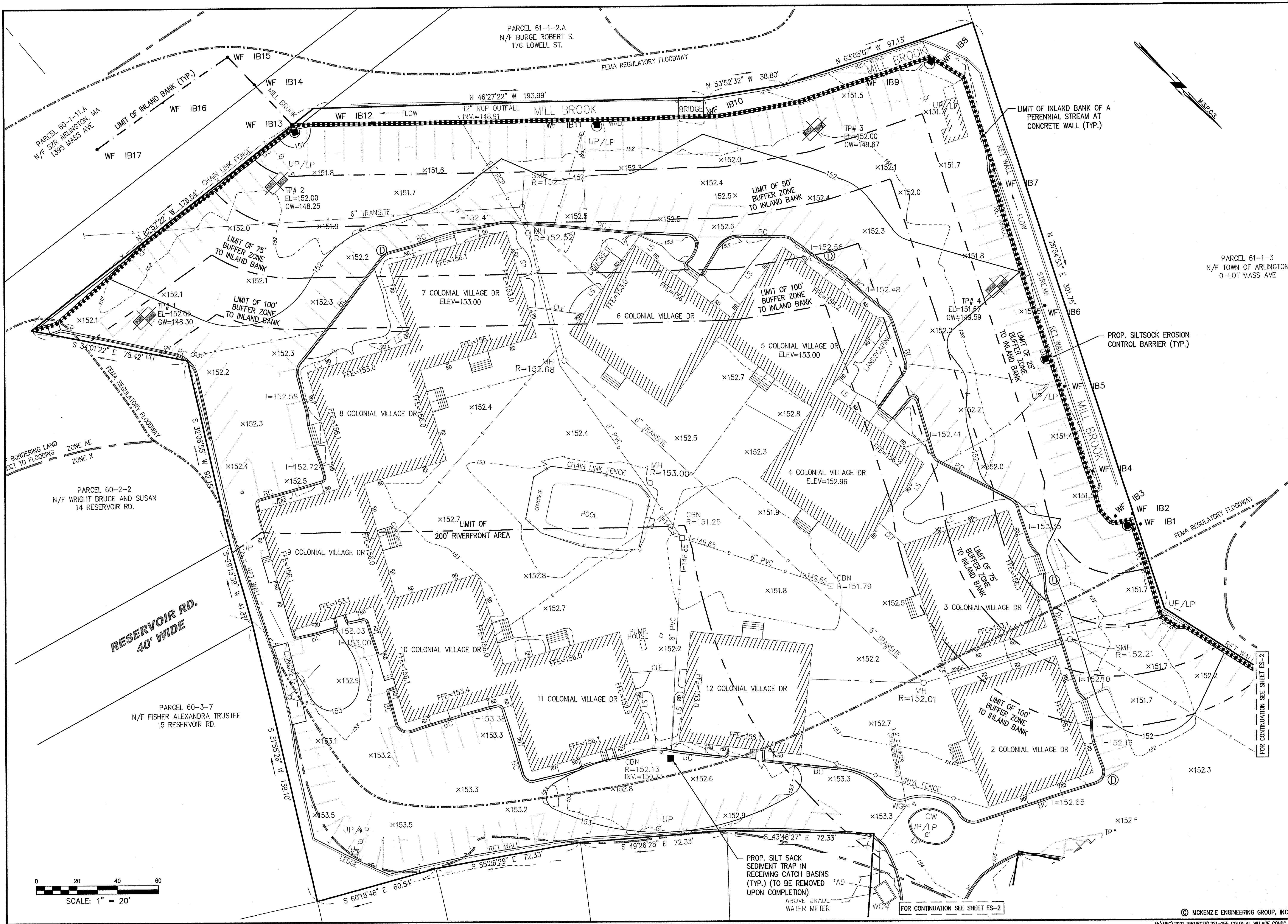
NOT FOR CONSTRUCTION

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DESIGNED BY:	AJC
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	12/13/2021
SCALE:	1"=20'
PROJECT NO.:	221-155
DWG. TITLE:	

GRADING & DRAINAGE PLAN

DWG. NO

C-4



BY	AP	DESCRIPTION	DATE	REV
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150 Longwater Drive, Suite 101
Norwell, MA 02061
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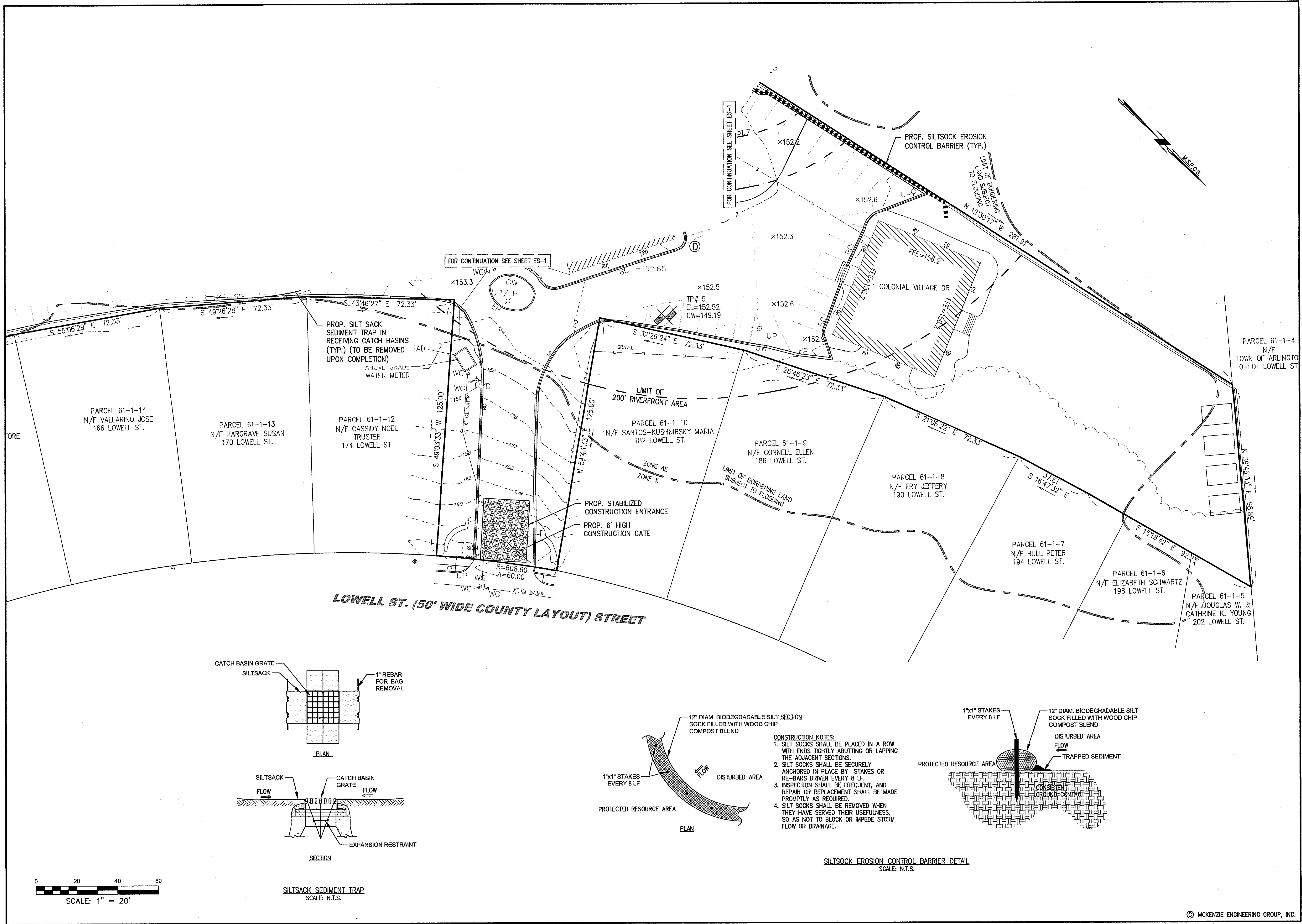
**PARKING LOT RECONSTRUCTION
COLONIAL VILLAGE DRIVE
(APN 061-A-1-1 THROUGH 061-A-12-12)
ARLINGTON, MASSACHUSETTS**

PROFESSIONAL ENGINEER:

APPLICANT:
Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, MA 02111

NOT FOR CONSTRUCTION

DRAWN BY:	RPL
DESIGNED BY:	AJC
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	12/13/2021
SCALE:	1"=20'
PROJECT NO.:	221-155
DWG. TITLE:	Erosion & Sedimentation Control Plan
DWG. NO.:	ES-1



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MCKENZIE ENGINEERING GROUP
Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
www.mckeng.com

**PARKING LOT RECONSTRUCTION
COLONIAL VILLAGE DRIVE
(APN 061.A-1-1 THROUGH 061.A-12-12)
ARLINGTON, MASSACHUSETTS**

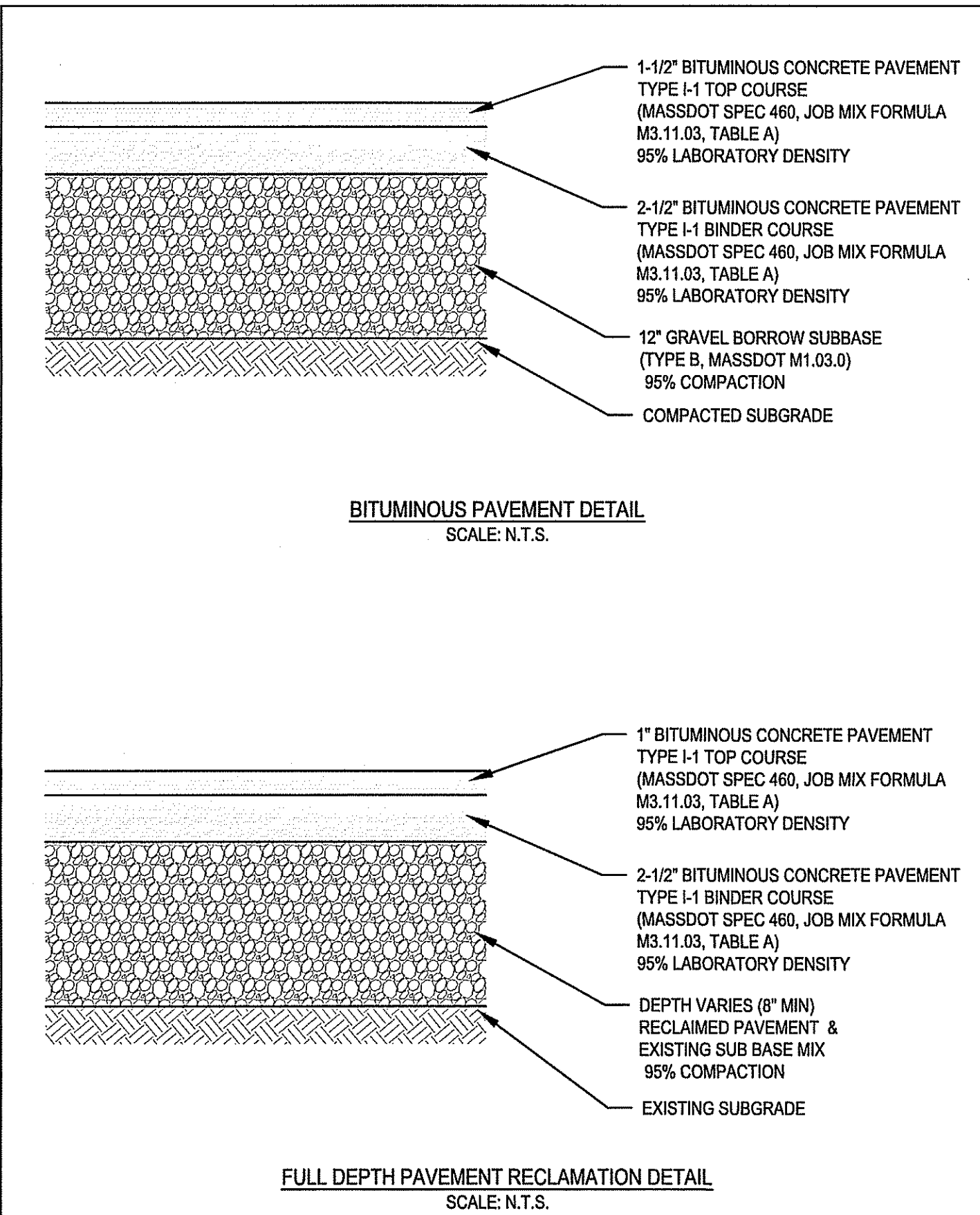
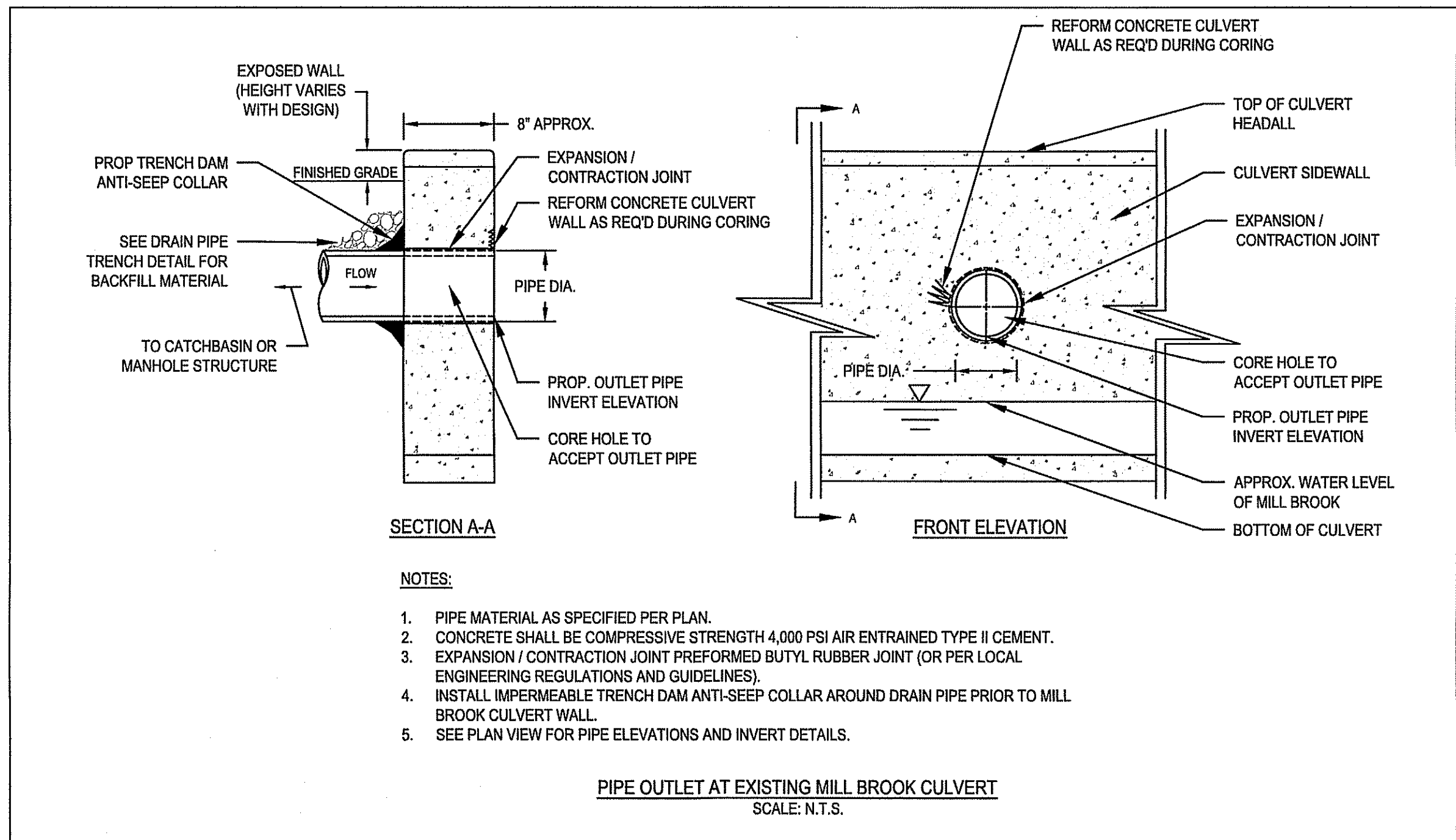
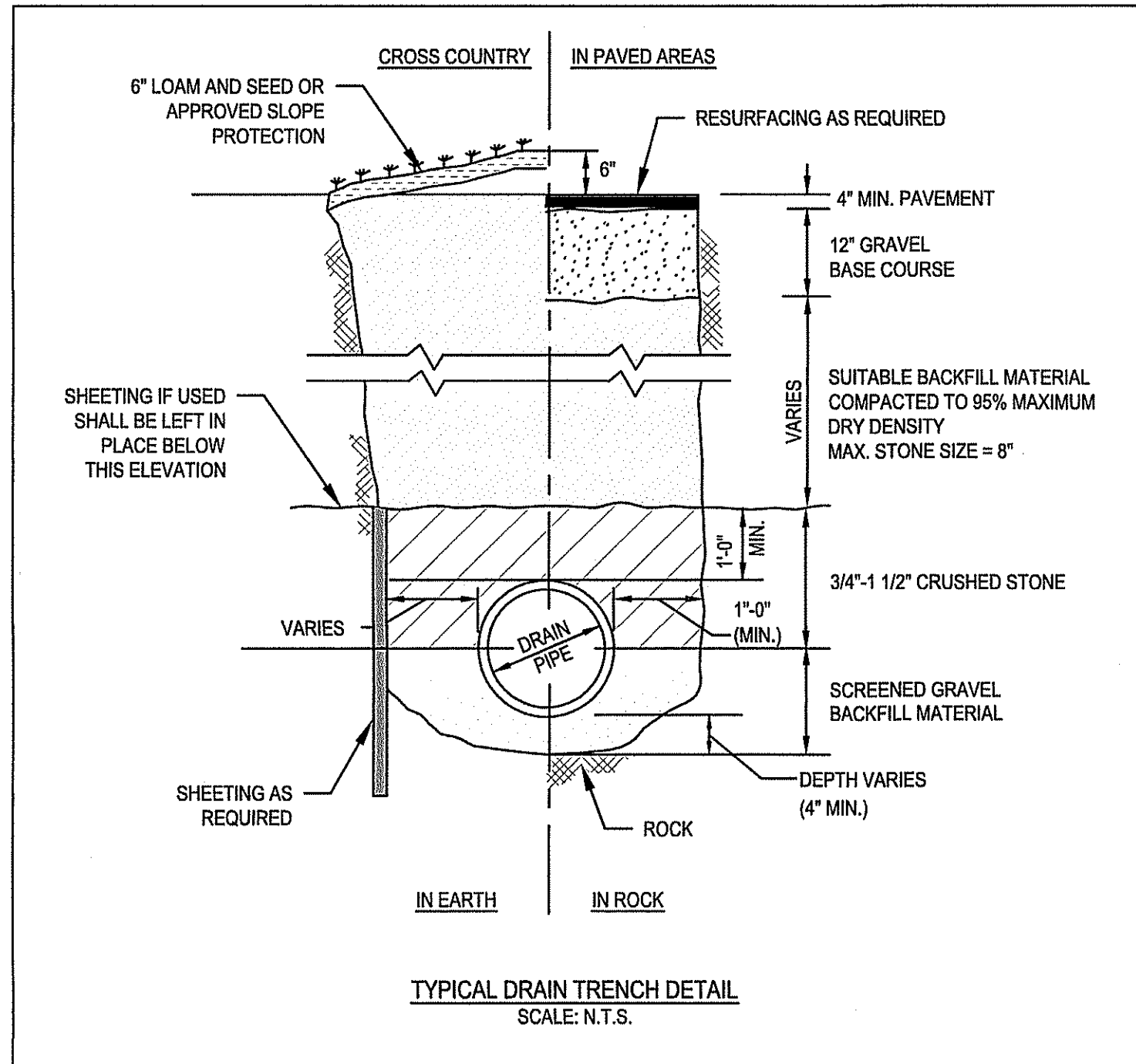
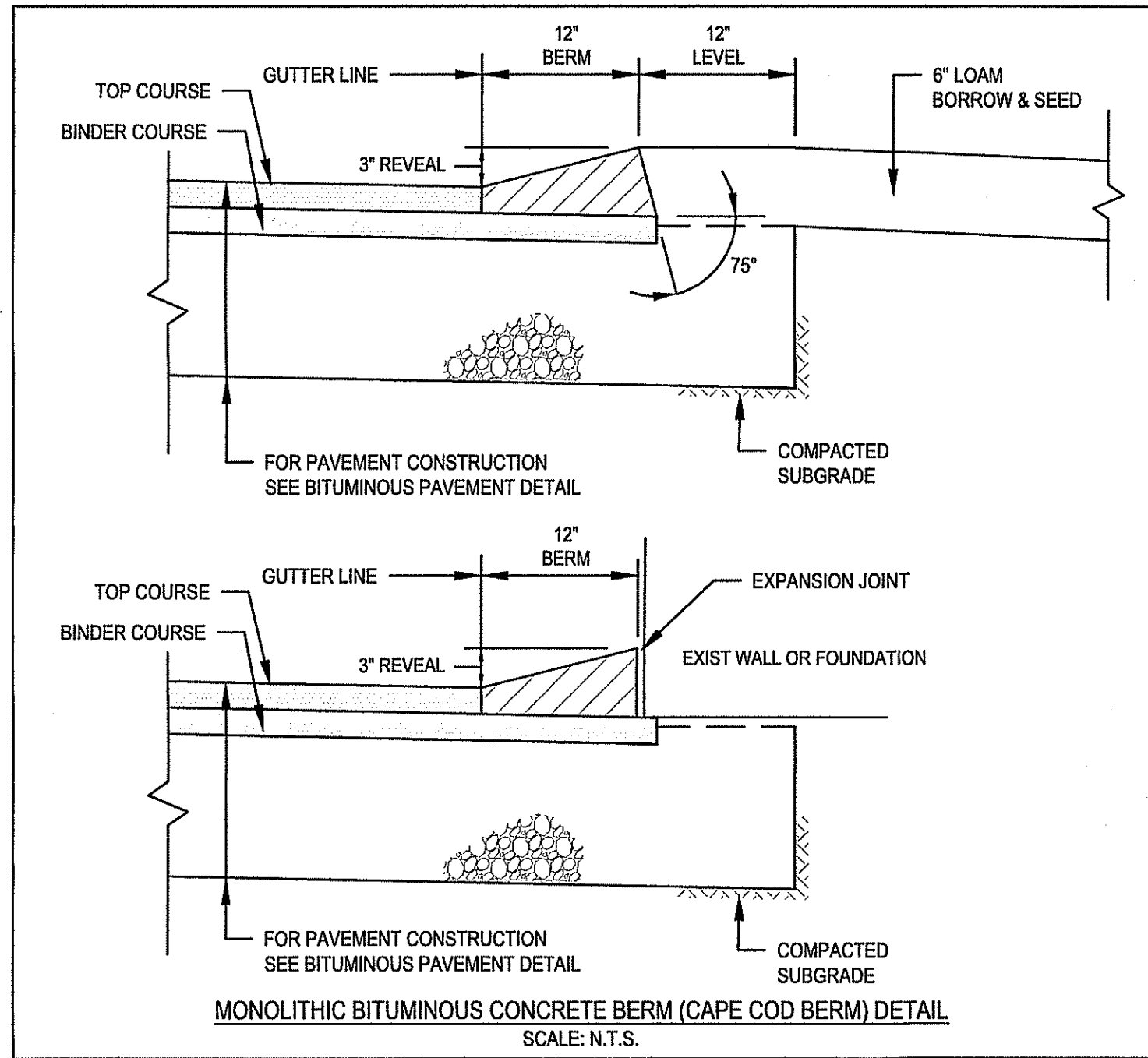
PROFESSIONAL ENGINEER:

APPLICANT:
Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, MA 02111

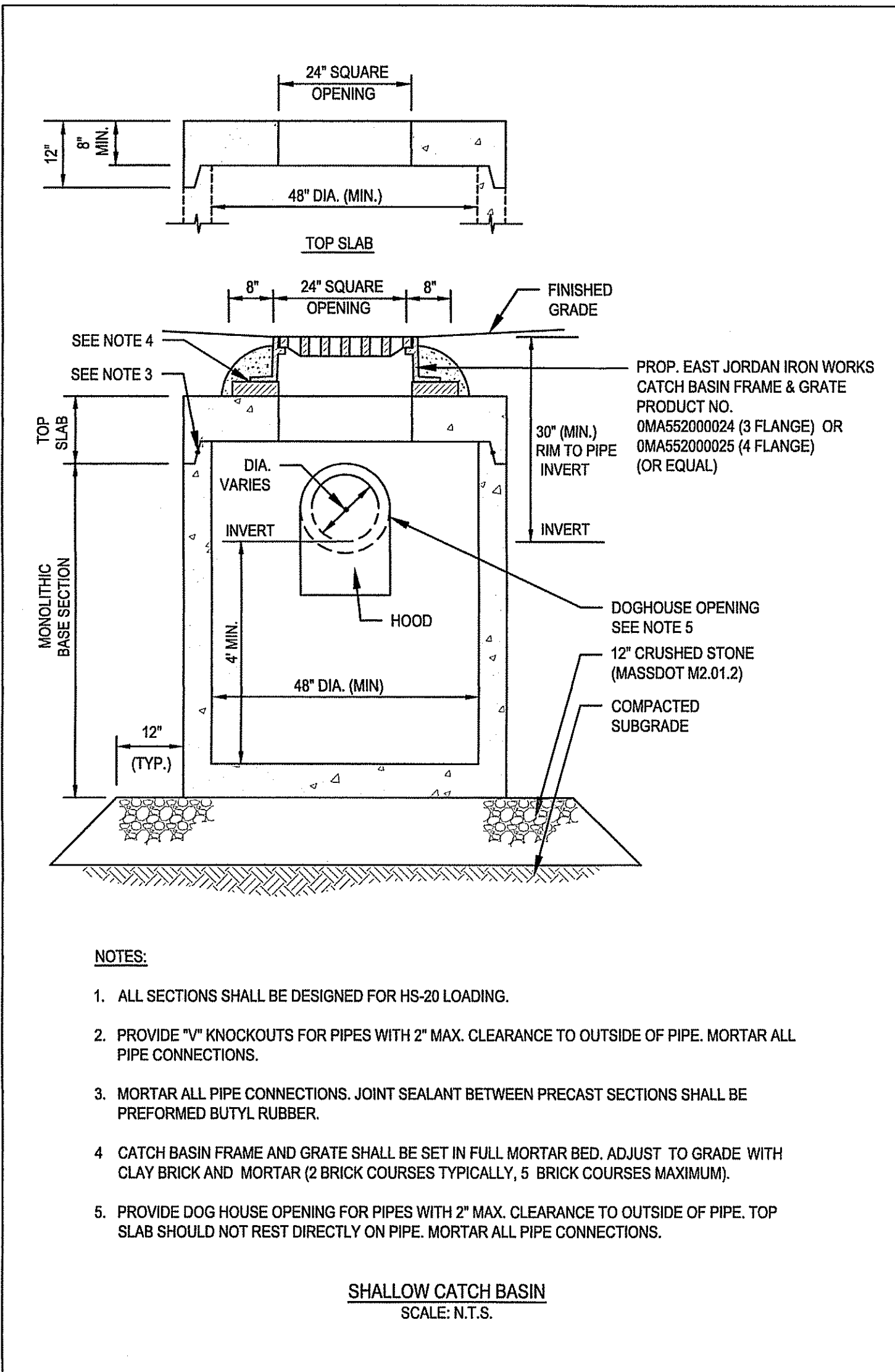
NOT FOR CONSTRUCTION

DRAWN BY:	RPL
DESIGNED BY:	AJC
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	12/13/2021
SCALE:	1"=20'
PROJECT NO.:	221-155
DWG. TITLE:	Erosion & Sedimentation Control Plan
DWG. NO.:	ES-2

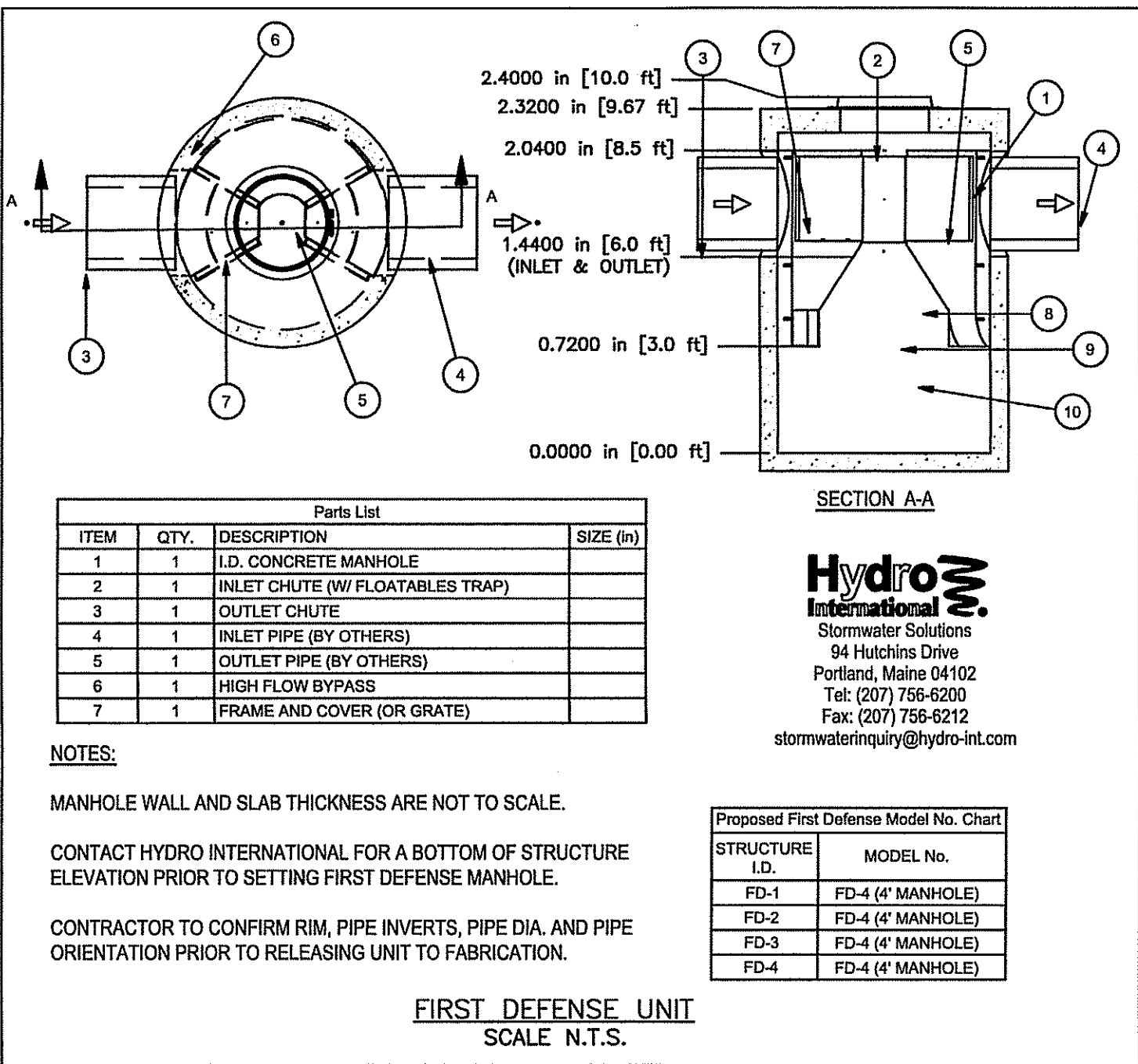
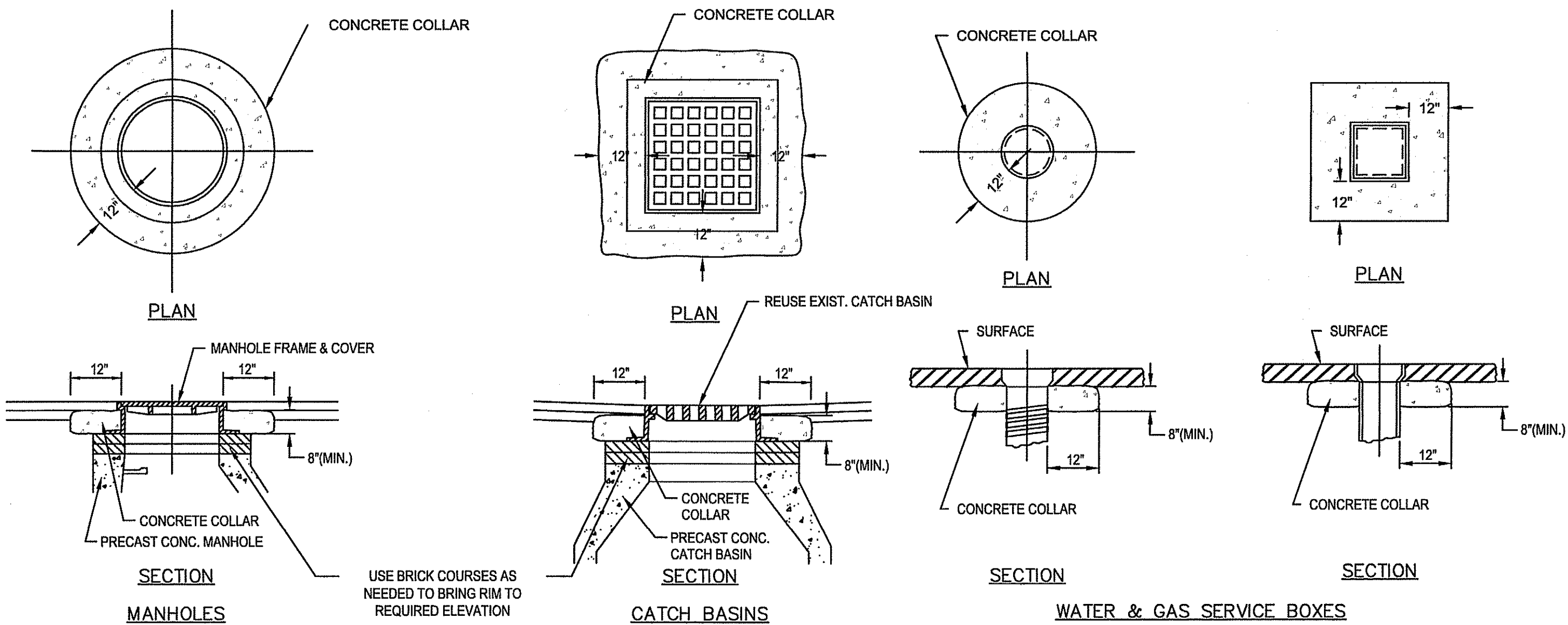
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M:\MEG\2021 PROJECTS\221-155 COLONIAL VILLAGE CONDO. TRUST - 1-12 COLONIAL VILLAGE DRIVE, ARLINGTON, MA\DWGS\221-155 MAIN-2.DWG



- CONSTRUCTION NOTES:**
- FULL DEPTH RECLAMATION SHALL CONSIST OF THE FOLLOWING:
 - PRIOR TO RECLAMATION, THE CONTRACTOR SHALL LOCATE AND PROTECT ALL DRAINAGE AND UTILITY STRUCTURES, UNDERGROUND PIPES, CONDUITS AND OTHER APPURTENANCES.
 - THE CONTRACTOR SHALL COMMENCE SCARIFYING AND PULVERIZING OF THE EXISTING BITUMINOUS PAVEMENT AND UNDERLYING BASE MATERIAL TO A TOTAL DEPTH OF 12 INCHES BELOW THE EXISTING PAVEMENT SURFACE. THIS RECLAIMED MATERIAL SHALL BE HOMOGENEOUS AND CONFORM TO THE MASSDOT M1.03.0 TYPE B MATERIAL SPECIFICATION.
 - THE RECLAIMED BASE MATERIAL SHALL BE GRADED AND COMPACTED, IN LIFTS NO GREATER THAN 6 INCHES IN DEPTH, TO THE PROPOSED FINISHED GRADE BELOW THE HOT MIX ASPHALT SECTION (4 INCHES BELOW FINISHED PAVEMENT GRADE).
 - AT NO POINT SHALL THE BASE COURSE DEPTH (RECLAIMED MATERIAL DEPTH PLUS REMAINING EXISTING BASE MATERIAL) BE LESS THAN 15 INCHES.
 - EXCESS RECLAIMED BASE MATERIAL SHALL BE STOCKPILED AND REMOVED FROM THE SITE.
 - MASSDOT SPECIFICATION 403 "RECLAIMED BASE COURSE" SHALL DICTATE ALL REQUIREMENTS FOR THE RECLAMATION PROCESS AND MATERIALS STANDARDS.



- NOTES:**
- ALL DRAINAGE STRUCTURE ADJUSTMENTS SHALL CONFORM TO MASSDOT SPECIFICATION 220 "ADJUSTMENT, REBUILDING AND REMODELING OF DRAINAGE STRUCTURES" AND ALL OTHER APPLICABLE SPECIFICATIONS.
 - IF CATCH BASIN FRAME OR GRATE IS DAMAGED, NEW CASTING MUST CONFORM TO MASSDOT SPECIFICATION 201 "BASINS, MANHOLES AND INLETS"
- DETAILS FOR ADJUSTING ROADWAY CASTINGS**
SCALE: NOT TO SCALE



- GENERAL UTILITY & CONSTRUCTION NOTES:**
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
 - THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE MASSDOT CONSTRUCTION SPECIFICATIONS AND DETAILS FOR ALL CONSTRUCTION. ANY DEVIATION FROM THE APPROVED SPECIFICATIONS AND DETAILS MUST BE APPROVED BY THE DESIGN ENGINEER PRIOR TO COMMENCEMENT OF WORK.
 - ANY ERRORS OR OMISSIONS IN THE DESIGN PLANS DISCOVERED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO COMPLETING RELATED WORK.
 - ALL ELEVATIONS ARE REFERENCED TO NAVD83 VERTICAL DATUM.
 - WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
 - ALL EXISTING SIGNS, BOLLARDS AND BOULDERS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS OTHERWISE NOTED.
 - JOINTS BETWEEN THE NEW HOT MIX ASPHALT ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSAND.
 - ALL EXISTING DRAINAGE GRATES AND COVERS AND WATER GATES SHALL BE ADJUSTED TO FINISHED GRADE.
 - ALL PROPOSED PEDESTRIAN ACCOMMODATIONS (I.E. SIDEWALKS, WHEELCHAIR RAMPS, ETC.) SHALL COMPLY WITH CURRENT ADA & MAAB RULES AND REGULATIONS AND MASSDOT STANDARDS.
 - ALL DRAINAGE STRUCTURES WITHIN THE LIMITS OF WORK SHALL BE CLEANED PRIOR TO THE CONCLUSION OF THE PROJECT UNLESS OTHERWISE NOTED.
 - ALL EXISTING PAVEMENT MARKINGS AND STRIPING SHALL BE REPLACED, IN KIND, FOLLOWING PLACEMENT OF THE TOP COURSE OF PAVEMENT. ALL PAINTING SHALL COMPLY WITH MASSDOT SPECIFICATION 860 "REFLECTORIZED PAVEMENT MARKINGS" AND MUTCD STANDARDS.



PARKING LOT RECONSTRUCTION
COLONIAL VILLAGE DRIVE
(APN 081.A-1-1 THROUGH 081.A-12-12)
ARLINGTON, MASSACHUSETTS

NOT FOR CONSTRUCTION

APPLICANT: Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, MA 02111

PROFESSIONAL ENGINEER: BRADLEY C. MCKENZIE
REGISTERED PROFESSIONAL ENGINEER
No. 35917

DRAWN BY: RPL
DESIGNED BY: RPL
CHECKED BY: A/C
APPROVED BY: BCM
DATE: 12/13/2021
SCALE: NTS
PROJECT NO.: 221-155
DWG. TITLE: CONSTRUCTION DETAILS

DWG. NO.: D-1



TOWN OF ARLINGTON

730 Massachusetts Ave.
Arlington, MA 02476
781-316-3012

ARLINGTON CONSERVATION COMMISSION

Notice of Intent (NOI) Administrative Filing Documents

Filing documents listed in the packet include:

1. Bylaw Filing Fees and Transmittal Form

The Town has a local filing fee and the State has a [state filing fee](#), of which a portion is allocated to the Town of Arlington.

2. Abutter Notification Model

This notification should be revised with information given by the Conservation Agent during pre-filing meeting or over the phone/email. Please revise this model document based on project specific information. A Certified Abutters List from the Assessor's Office needs to be submitted with these filing documents. The list should include all abutters within 100 feet of the site's property boundaries.

3. Affidavit of Service

This affidavit is for mailing abutter notification.

4. Legal Notice Charge Authorization Form

The Conservation Agent will prepare the Legal Notice and the Applicant will be billed directly by the Arlington Advocate based on their cost-per-word fee.

Bylaw Filing Fees and Transmittal Form

Rules:

1. Fees are payable at the time of filing the application and are non-refundable.
2. Fees shall be calculated per schedule below.
3. Town, County, State, and Federal Projects are exempt from fees.
4. These fees are in addition to the fees paid under M.G.L. Ch. 131, s.40 (ACT).

Fee Schedule (ACC approved 1/8/15):

\$	No./Area	Category
		(R1) RDA- \$150 local fee, no state fee
\$200.00		(N1) Minor Project - \$200 (house addition, tennis court, swimming pool, utility work, work in/on/ or affecting any body of water, wetland or floodplain).
		(N2) Single Family Dwelling - \$600
		(N3) Multiple Dwelling Structures - \$600 + \$100 per unit all or part of which lies within 100 feet of wetlands or within land subject to flooding.
		(N4) Commercial, Industrial, and Institutional Projects - \$800 + 50¢/s.f. wetland disturbed; 2¢/s.f. land subject to flooding or buffer zone disturbed.
		(N5) Subdivisions - \$600 + \$4/l.f. feet of roadway sideline within 100 ft. of wetlands or within land subject to flooding.
		(N6) Other Fees - copies, printouts; per public records law
		(N7) Minor Project Change - \$50
		(N8) Work on Docks, Piers, Revetments, Dikes, etc - \$4 per linear foot
		(N9) Resource Boundary Delineation (ANRAD) - \$1 per linear foot
		(N10) Certificate of Compliance (COC or PCOC) - No charge if before expiration of Order, \$200 if after that date.
		(N11) Amendments - \$300 or 50% of original local filing fee, whichever is less.
		(N12) Extensions -
		a. Single family dwelling or minor project - \$100.
		b. Other - \$150.
		(N13) Consultant Fee -per estimate from consultant
\$200.00	TOTAL	

Note: Submit this form along with the forms submitted for the ACT - the "Wetlands Filing Fee Calculations Worksheet," and the "Notice of Intent Fee Transmittal Form."

Abutter Notification

Notification to Abutters Under the Massachusetts Wetlands Protection Act And Arlington Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the Arlington Wetlands Protection Bylaw, you are hereby notified of the following:

The Conservation Commission will hold a virtual public meeting using Zoom, on Thursday, January 6, 2022, at 7:30 PM in accordance with the provisions of the Mass. Wetlands Protection Act (M.G.L. Ch. 131, s. 40, as amended), the Town of Arlington Bylaws Article 8, Bylaw for Wetland Protection, and in accordance with the Governor's Order Suspending Certain Provisions of the Open Meeting Law, G. L. c. 30A, § 20 relating to the COVID-19 emergency, for a Notice of Intent from Colonial Village Condominium Trust, for parking lot reconstruction at Colonial Village Drive, within 100-foot Buffer Zone to Inland Bank, 200-foot Riverfront Area, and Bordering Land Subject to Flooding (FEMA AE Zone), on Assessor's Property Map #61, Lots #A-1-1 through A-12-12. Please refer to the Commission's online meeting agenda for specific Zoom meeting access information.

A copy of the application and accompanying plans are available by request by contacting the Arlington Conservation Agent at 781-316-3229 or mmuszynski@town.arlington.ma.us. For more information call the applicant at 781-792-3900 or the Arlington Conservation Commission at 781-316-3229, or the DEP Northeast Regional Office at 978-694-3200.

NOTE: Notice of the Public Hearing will be published at least five (5) business days in advance in *The Arlington Advocate* and will also be posted at least 48 hours in advance on the Arlington Town Hall website.

The meeting information for your hearing is:

Date: Thursday, January 6, 2022

Time: 7:30 PM

Affidavit of Service

(Please return to Conservation Commission)

I, _____, being duly sworn, do hereby state as follows: on _____, I mailed a "Notification to Abutters" in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, s.40, the DEP Guide to Abutter Notification dated April 8, 1994, and the Arlington Wetlands Protection Bylaw, Title V, Article 8 of the Town of Arlington Bylaws in connection with the following matter:

Proposed work includes the reconstruction of all on-site bituminous concrete parking and access driveways, installation of stormwater management systems and site grading at Colonial Village Drive, Arlington.

The form of the notification, and a list of the abutters to whom it was provided and their addresses, are attached to this Affidavit of Service.

Signed under the pains and penalties of perjury, this _____ day of _____.

Name

Legal Notice Charge Authorization

DATE: December 21, 2021

TO: legals@wickedlocal.com

I hereby authorize Community Newspapers to bill me directly for the legal notice to be published in the Arlington Advocate newspaper on _____ Date TBD _____ for a public hearing with the Arlington Conservation Commission to review a project at the following location:

Colonial Village Drive

Thank you.

Signed: _____

Send bill to:

150 Longwater Drive, Suite 101 _____ (Address)

Norwell, MA 02061

781-792-3900 _____ (Phone)

NOTICE OF INTENT

Filed under:

**MGL. CH. 131 S. 40 AND THE
TOWN OF ARLINGTON WETLANDS BYLAW**

Located at:

**COLONIAL VILLAGE DRIVE
ASSESSORS PARCEL (061.A-1-1 THROUGH 061.A-12-12)
ARLINGTON, MASSACHUSETTS**

Submitted to:

**ARLINGTON CONSERVATION COMMISSION
AND THE
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Applicant:

**COLONIAL VILLAGE CONDOMINIUM TRUST
15 TREMONT STREET PH1
BOSTON, MASSACHUSETTS 02111**



Professional Civil Engineering • Project Management • Land Planning
150 Longwater Drive, Suite 101, Norwell, Massachusetts 02061
Tel.: (781) 792-3900 Facsimile: (781) 792-0333
www.mckeng.com

December 13, 2021

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SECTION II

- Project Narrative
- Wetland Delineation Report

SECTION III

- WPA Wetland Fee Transmittal Form
- Copy of Checks

SECTION IV

- Certified List of Abutters
- Assessors Map

S E C T I O N I

WPA Form 3 – Notice of Intent

Figure 1 – USGS Locus Map

Figure 2 – FEMA Flood Map

**Figure 3 – Natural Heritage & Endangered
Species**

Figure 4 – NRCS Soils Survey



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Arlington

City/Town

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

Colonial Village Drive

a. Street Address

Arlington

b. City/Town

02474

c. Zip Code

Latitude and Longitude:

42d 25'34" N

d. Latitude

71d 11'10" W

e. Longitude

Map 61

f. Assessors Map/Plat Number

Lot A-1-1 through A-12-12

g. Parcel /Lot Number

2. Applicant:

a. First Name

Colonial Village Condominium Trust

b. Last Name

c. Organization

15 Tremont Street PH1

d. Street Address

Boston

e. City/Town

MA

f. State

02111

g. Zip Code

617-423-7000

h. Phone Number

i. Fax Number

afoley@firstrealtymgt.com

j. Email Address

3. Property owner (required if different from applicant): ☐ Check if more than one owner

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Austin

a. First Name

Chartier, PE

b. Last Name

McKenzie Engineering Group, Inc.

c. Company

150 Longwater Drive, Suite 101

d. Street Address

Norwell

e. City/Town

MA

f. State

02061

g. Zip Code

781-792-3900

h. Phone Number

781-792-0333

i. Fax Number

achartier@mckeng.com

j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

\$4,500.00

a. Total Fee Paid

\$2,237.50

b. State Fee Paid

\$2,262.50

c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Arlington

City/Town

A. General Information (continued)

6. General Project Description:

The project will include complete parking lot reconstruction, drainage improvements and grading in FEMA Zone AE.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input checked="" type="checkbox"/> Other | |

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☒ No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Middlesex

a. County

21896

c. Book

b. Certificate # (if registered land)

562

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- ☐ Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- ☒ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

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Arlington

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input checked="" type="checkbox"/> Bank	25 1. linear feet	25 2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	75,450 1. square feet 0 3. cubic feet of flood storage lost	75,450 2. square feet 1,500 +/- 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input checked="" type="checkbox"/> Riverfront Area	Mill Brook (Inland) 1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

- ☐ 25 ft. - Designated Densely Developed Areas only
- ☐ 100 ft. - New agricultural projects only
- ☒ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: 137,724
square feet

4. Proposed alteration of the Riverfront Area:

<u>60,890</u>	<u>45,586</u>	<u>15,304</u>
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ☒ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☒ Yes ☐ No

3. ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Arlington

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement		
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.		
a. square feet of BVW	b. square feet of Salt Marsh	

5. ☐ Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings



Massachusetts Department of Environmental Protection
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WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C. Other Applicable Standards and Requirements

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. ☐ Yes ☒ No **If yes, include proof of mailing or hand delivery of NOI to:**

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

August 2017

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

2. ☐ Assessor's Map or right-of-way plan of site

2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

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C. Other Applicable Standards and Requirements (cont'd)

- (c) ☐ MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) ☐ Vegetation cover type map of site
- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. ☒ Not applicable – project is in inland resource area only b. ☐ Yes ☐ No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

- c. ☐ Is this an aquaculture project? d. ☐ Yes ☐ No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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Arlington

City/Town

C. Other Applicable Standards and Requirements (cont'd)

Online Users:

Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
 b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
 a. ☐ Yes ☒ No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
 a. ☐ Yes ☒ No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
 a. ☒ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
 1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. ☐ A portion of the site constitutes redevelopment
 3. ☒ Proprietary BMPs are included in the Stormwater Management System.
- b. ☐ No. Check why the project is exempt:
 1. ☐ Single-family house
 2. ☐ Emergency road repair
 3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. ☒ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. ☒ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Arlington

City/Town

D. Additional Information (cont'd)

3. ☒ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.
- Parking Lot Reconstruction, Colonial Village Drive, APN:61.A-1-1 through 61.A-12-12, Arlington, MA
- | | |
|--|--------------------------|
| McKenzie Engineering Group, Inc. | Bradley C. McKenzie |
| b. Prepared By | c. Signed and Stamped by |
| December 13, 2021 | As Noted |
| d. Final Revision Date | e. Scale |
| Drainage Calculations and Stormwater Management Plan | December 13, 2021 |
| f. Additional Plan or Document Title | g. Date |
5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☒ Attach Stormwater Report, if needed.

E. Fees

1. ☐ Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

000089

2. Municipal Check Number

000088

4. State Check Number

Colonial Village Condominium

6. Payor name on check: First Name

11/16/2021

3. Check date

11/16/2021

5. Check date

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Arlington

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

11/3/2021 | 4:45 PM EDT

DocuSigned by:

3B9E657FCF464BC...

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

12-13-2001

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

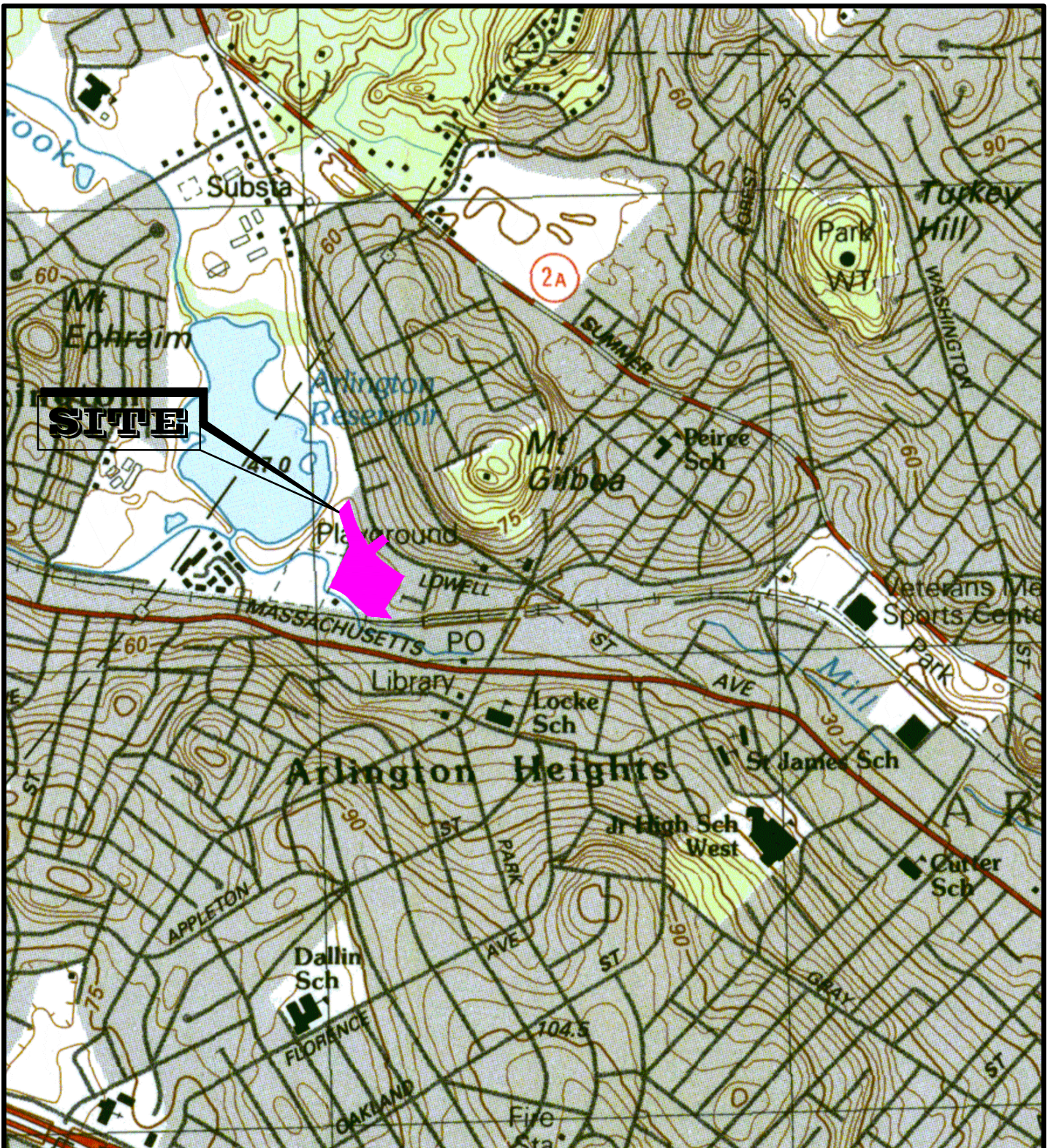
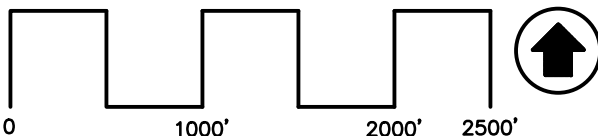


FIGURE - 1



U.S. GEOLOGICAL SURVEY
7.5 X 15 MINUTE SERIES

© MCKENZIE ENGINEERING GROUP, INC.



Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
F: 781.792.0333
www.mckeng.com

USGS LOCUS MAP

COLONIAL VILLAGE DRIVE
(APN: 061.A-1-1 THROUGH 061.A12-12)
ARLINGTON, MASSACHUSETTS

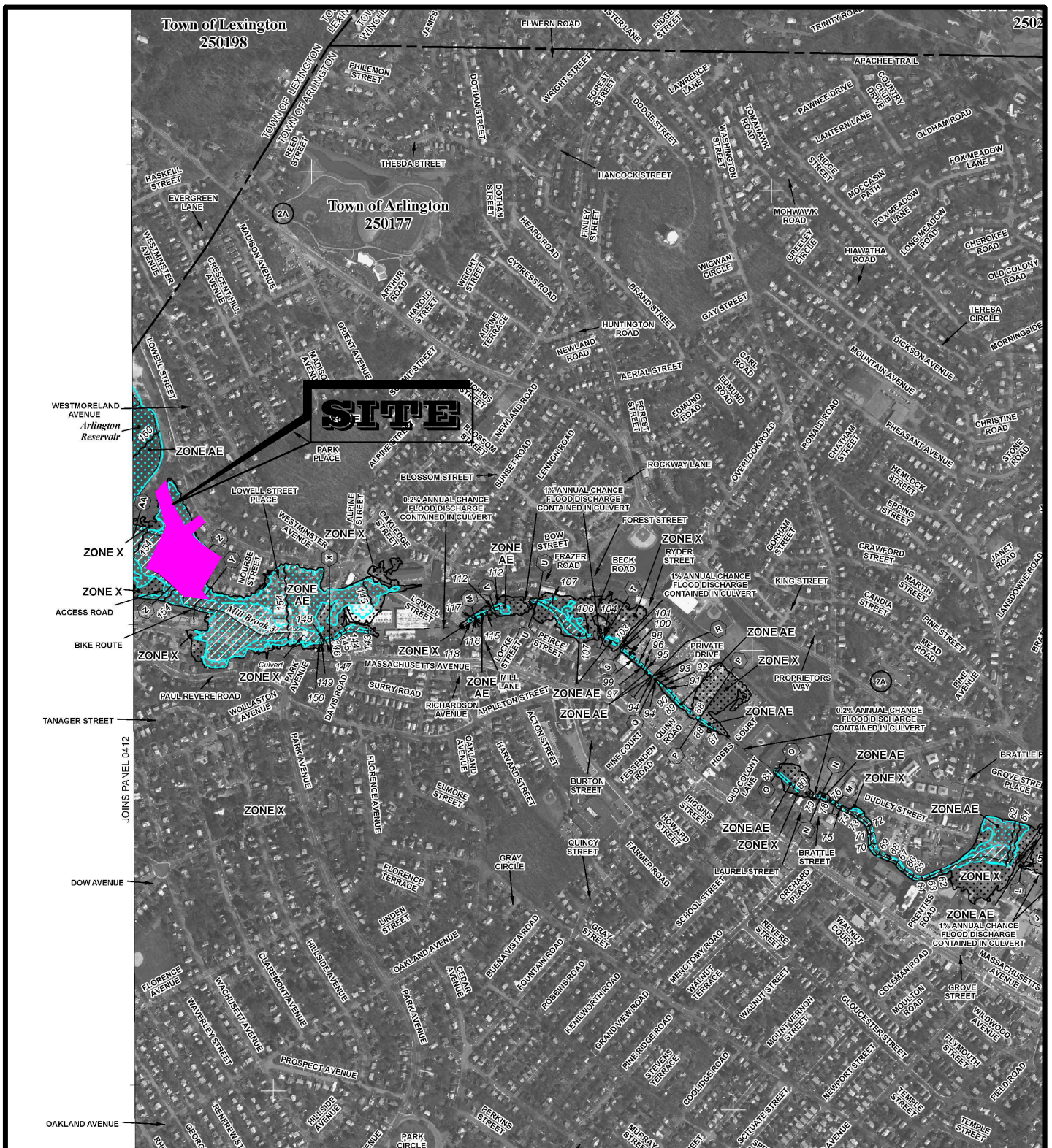
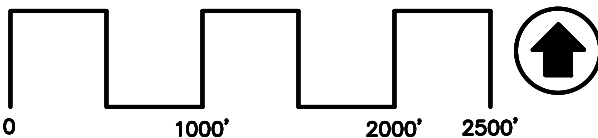


FIGURE - 2



COMMUNITY PANEL NO: 25017C0416E
EFFECTIVE DATE: JUNE 4, 2010

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Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
F: 781.792.0333
www.mckeng.com

FEMA FLOOD MAP

COLONIAL VILLAGE DRIVE
(APN: 061.A-1-1 THROUGH 061.A12-12)
ARLINGTON, MASSACHUSETTS

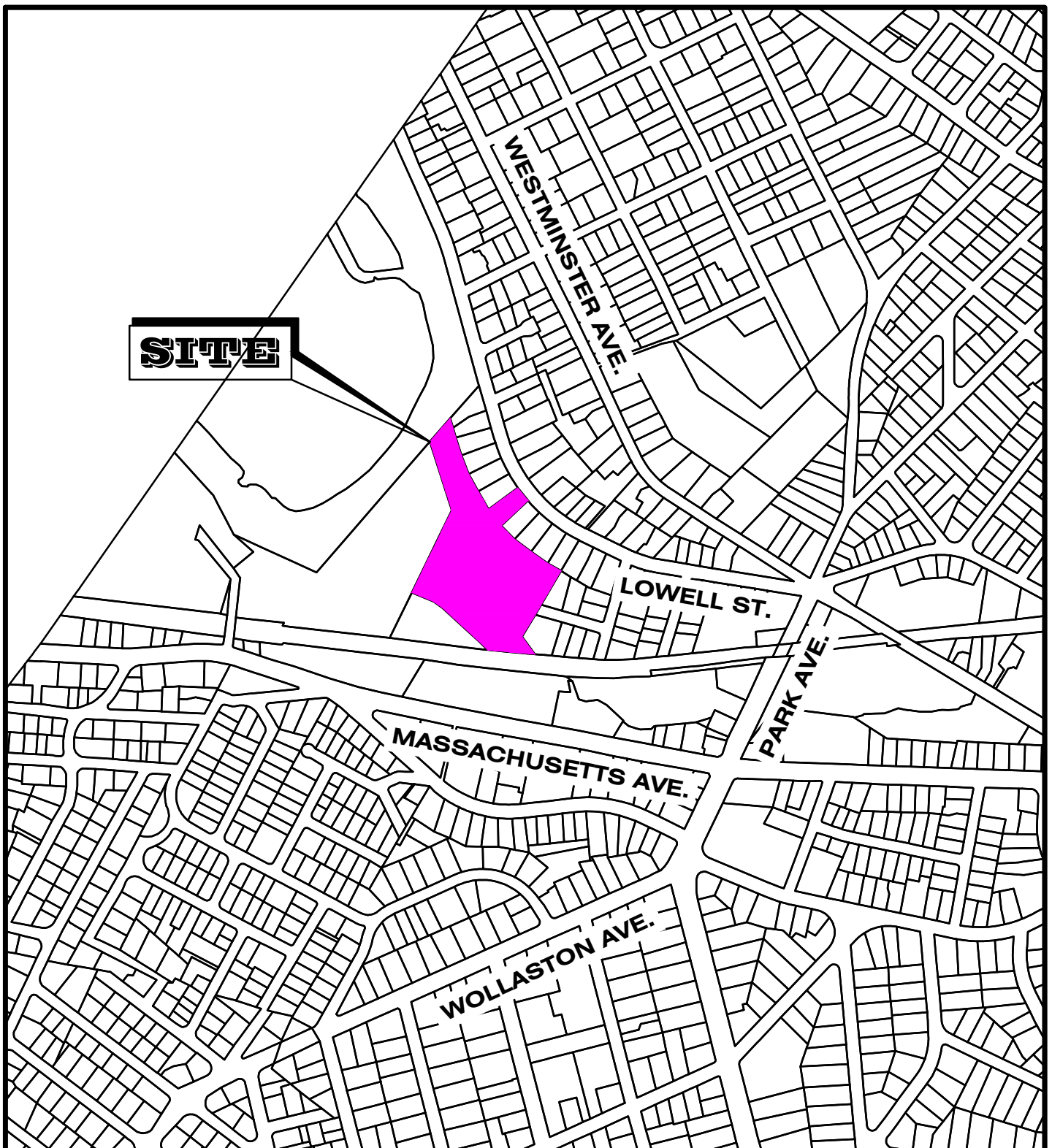
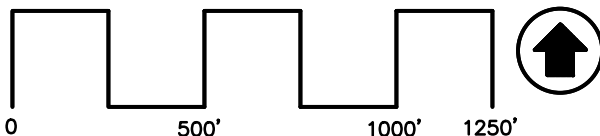


FIGURE - 3



NATURAL HERITAGE AND
ENDANGERED SPECIES PROGRAM
2017 EDITION

© MCKENZIE ENGINEERING GROUP, INC.

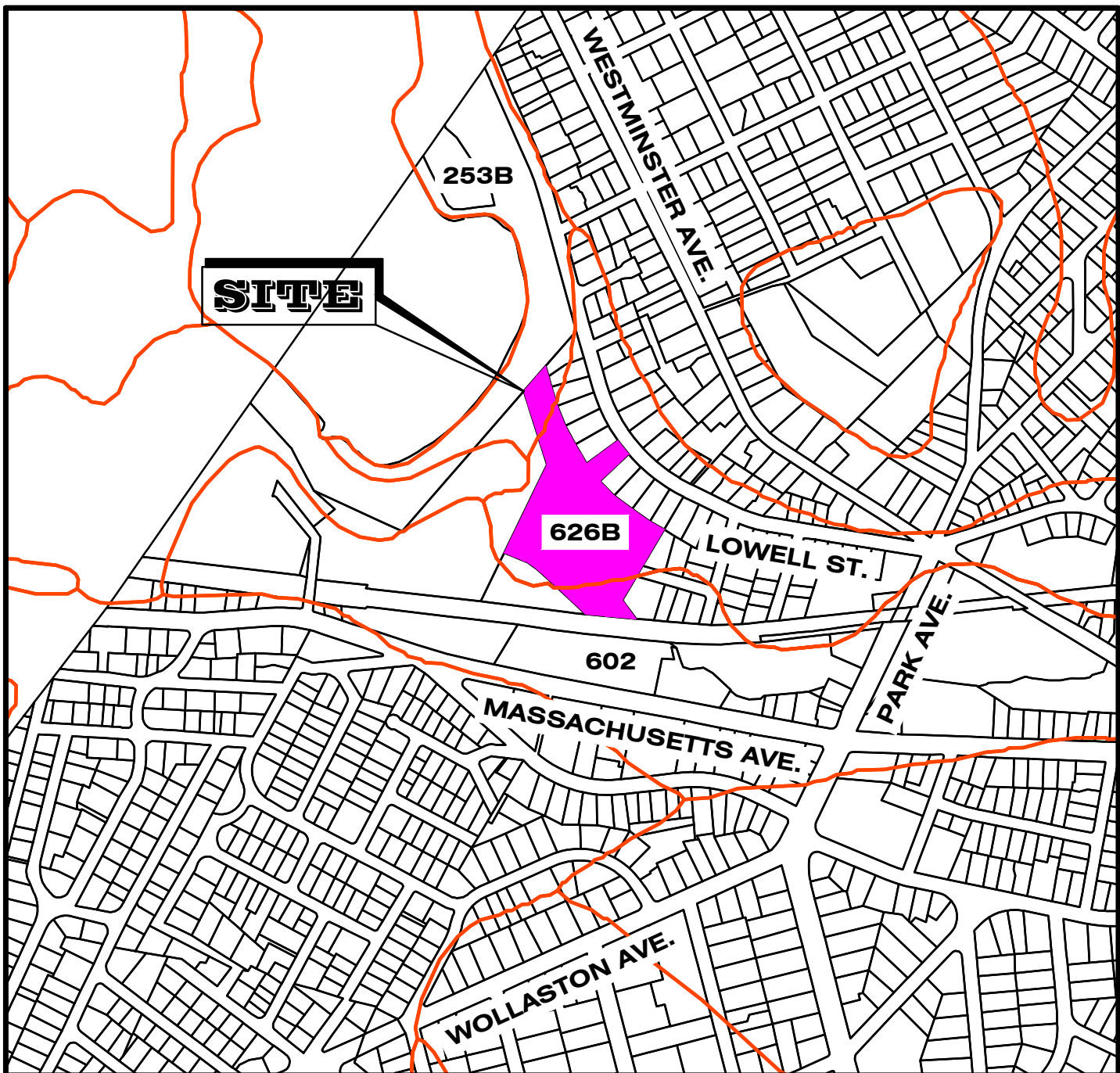


Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
F: 781.792.0333
www.mckeng.com

**NATIONAL HERITAGE AND
ENDANGERED SPECIES MAP**

COLONIAL VILLAGE DRIVE
(APN: 061.A-1-1 THROUGH 061.A12-12)
ARLINGTON, MASSACHUSETTS

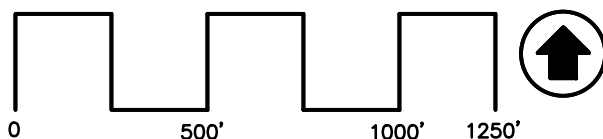
2 of 299



SOIL KEY

SOIL CLASSIFICATION	DESCRIPTION	HYDROLOGIC SOIL GROUP
253B	HINCKLEY LOAMY SAND, 3-8% SLOPES	A
602	URBAN LAND	UNCLASSIFIED
626B	MERRIMAC-URBAN LAND COMPLEX, 0-8% SLOPES	A

FIGURE - 4



NRCS SOIL SURVEY
MIDDLESEX COUNTY



Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
F: 781.792.0333
www.mckeng.com

NRCS SOILS MAP

COLONIAL VILLAGE DRIVE
(APN: 061.A-1-1 THROUGH 061.A12-12)
ARLINGTON, MASSACHUSETTS

SECTION II

Project Narrative Wetland Delineation Report

PROJECT NARRATIVE
Parking Lot Reconstruction
Colonial Village Drive, Arlington, MA

1.0 Project Description

The project proponent, Colonial Village Condominium Trust, proposes full depth pavement reconstruction at Colonial Village Drive in Arlington, Massachusetts. The proposed project will consist of the reconstruction of all on-site bituminous concrete parking and access driveways, curbing, installation of stormwater management systems and site grading.

The parcel is shown on the Town of Arlington Assessors Maps as Parcel ID 061.A-1-1 through 061.A-12-12 and is comprised of 4.53 acres. The parcel's frontage is on Lowell Street at the northeast property line. The site is located entirely within the Residence 5 (R5) Zoning District, and abuts residential development to the north, east, and south, and Town-owned property to the west. The parcel is currently developed consisting of twelve 12-unit condominium buildings, bituminous concrete parking and access driveways, and landscaped areas. Refer to Figure 1- USGS Locus Map for the location of the parcel.

This Notice of Intent filing includes under separate cover a report entitled "Drainage Calculations and Stormwater Management Plan – Colonial Village Drive, Arlington, MA", dated December 13, 2021, prepared by McKenzie Engineering Group, Inc. (MEG) which includes the sizing of the proposed drainage system and stormwater best management practices (BMPs). The project is a redevelopment project under the Department of Environment Protection's Stormwater Management Regulations and as such the stormwater management system has been designed to comply to the maximum extent practicable with all standards.

The work proposed under this Notice of Intent includes the reconstruction of all on-site bituminous concrete parking and access driveways, curbing, installation of stormwater management systems and site grading within a 100-foot Buffer Zone to Inland Bank, within the 200-foot Riverfront Area and Bordering Land Subject to Flooding (FEMA AE Zone).

2.0 Wetland Resource Description

Inland Bank

Wetland resource areas are located on the near western and southern portion of the site associated with a U.S.G.S. mapped perennial stream that flows within a concrete walled stream system. The perennial stream flows from the Arlington Reservoir and is channelized by concrete walls on either side. The concrete walls function as Inland Banks to the stream. The landward limits of the Inland Bank on site were delineated by Environmental Consulting & Restoration, LLC (ECR) on July 12, 2021. Refer to the Wetland Delineation Memo prepared by ECR dated July 30, 2021 in Section II for more information.

Approximately 25 linear feet of the existing concrete walls which channelize Mill Brook and act as Inland Banks to the stream will be altered and replaced. Alteration is caused by coring of the wall for installation of First Defense Unit outfalls.

Riverfront Area

The site falls within the 200-foot Riverfront Area associated with Mill Brook. Proposed work within the riverfront area complies with the performance standards for riverfront areas under 310 CMR 10.58(5) Redevelopment Within Previously Developed Riverfront Areas; Restoration and Mitigation. The project complies with 10.85(5) as outlined below:

- (a) The proposed project results in an improvement over existing conditions due to the following:
 - 1. The existing site has no stormwater management facilities and does not comply with the DEP Stormwater Management Regulations. The proposed project utilizes proprietary First Defense Units to treat surface runoff before discharging to Mill Brook.
 - 2. A construction phase and post-development operation and maintenance plan will be implemented to maintain the integrity of the site and minimize the potential for erosion.
- (b) Although the site is a redevelopment project, the proposed site development includes a stormwater management system designed to comply with the Stormwater Management Regulations to the maximum extent practicable.
- (c) No degraded areas are proposed to be closer to Mill Brook than in the existing condition.
- (d) Due to the existing parking lot's location being partially within the riverfront area, it is not possible to situate work outside the riverfront area.
- (e) The project includes reconstruction of approximately 60,890 s.f. of parking lot area within the Riverfront Area. No new degraded areas are proposed within the Riverfront Area.
- (f) No restoration of Riverfront Area is proposed for this project. Proposed work includes reconstruction of previously degraded areas in place.
- (g) Off-site mitigation is not proposed for this project.
- (h) Not Applicable, no restoration areas proposed for this project.

Bordering Land Subject to Flooding

The site is located within Bordering Land Subject to Flooding (FEMA Zone AE) according to Federal Emergency Management Agency (FEMA) flood maps as shown on the current FEMA Flood Insurance Rate Map Panel No. 25017C0416E with an effective date of June

4, 2010. Refer to Figure 2 – FEMA Flood Map. Proposed work within Bordering Land Subject to Flooding complies with the performance standards for Bordering Land Subject to Flooding under 310 CMR 10.57(4)(a). The project complies with 10.57(4)(a) as outlined below:

1. The proposed project will result in approximately 1,500 c.f. of additional flood storage.
2. Proposed work will not restrict flows or cause an increase in flood stage or velocity.
3. No portion of bordering land subject to flooding within the limit of work is significant to the protection of wildlife habitat.

Other Resources

The site does not contain any certified vernal pools and is not located within Estimated Habitat of Rare Wetlands Wildlife, as determined by reference to the Massachusetts Division of Fisheries and Wildlife Natural Heritage Atlas 2017 edition and data provided by Mass GIS. Refer to Figure 3 – Natural Heritage and Endangered Species Map. The site is not located within an Area of Critical Environmental Concern (ACEC).

3.0 Mitigation Measures

The following are mitigation measures that will be employed to ensure that impacts to wetland values protected under the Town of Arlington Wetlands Protection Regulations (WPR) and the Wetlands Protection Act are minimized to the extent possible.

Construction of the site infrastructure will require work within a 100-foot Buffer Zone to Inland Bank, 200-foot Riverfront Area, and Bordering Land Subject to Flooding (FEMA AE Zone). Alteration of resource areas will be limited to that required to properly reconstruct the bituminous concrete parking and access driveways.

Public or Private Water Supply/Groundwater Quality

The project's development will not adversely affect the quality or quantity of any public or private water supply. Pesticides and herbicides shall not be used within the limits of the 100' buffer zone to the wetland resource areas. Fertilizers that are used within this zone should be restricted to the use of organic fertilizers only. The proposed compost filter tube erosion control barrier will serve to prevent the migration of sediments towards wetland resource areas.

Water Pollution Control

In addition to the above measures that will also serve to maintain the pollution prevention functions of the resource area, the cutting of vegetation within the buffer zone will be

restricted to only the limit of work shown on the plan. In addition, the proposed compost filter tube will serve to prevent the migration of sediments towards the wetland resource areas. The design of the site development incorporates First Defense Units intended to improve water quality from the site's stormwater runoff.

Flood Control/Storm Damage Prevention

The proposed redevelopment project has been designed to comply to the maximum extent practicable with the DEP Stormwater Management Regulations. The flooding impacts have been analyzed and the pre development peak discharge rate of runoff has been maintained. The proposed project will not obstruct the flow of water or increase flood heights within the flood plain.

Sedimentation and Erosion Control

Compost filter tube (Silt sock) erosion control barriers will be placed at the limit of work prior to the commencement of any construction activity. The integrity of the silt sock will be maintained by periodic inspection and replacement as necessary. The silt sock will remain in place until the first course of pavement has been placed and all side slopes have been loamed and seeded and vegetation has been established. Refer to the Erosion Control details on the Site Development Plans.

The potential for temporary impacts to wetlands due to erosion and migration of sediments into adjacent wetlands will be mitigated by adherence to basic erosion control practices.

These include but not limited to the following:

1. Install compost filter tube erosion control barriers (see plan detail) according to the approved plan. This erosion control barrier shall be installed prior to any work at the site. An additional stockpile of compost filter tube and siltation fence will be stored on site for use in repairing the erosion control barrier as needed. Inspections of the erosion control barrier shall be made weekly and after all significant rainfall events.
2. Clearly define the limits of work in the field in order to minimize the extent of site disturbance.
3. Regularly inspect and maintain erosion controls and sedimentation traps during construction.



Environmental Consulting & Restoration, LLC



WETLAND DELINEATION MEMO

TO: McKenzie Engineering Group

FROM: Brad Holmes

DATE: July 30, 2021

RE: Colonial Village, Arlington

Per your request, Environmental Consulting & Restoration, LLC (ECR) performed a review of the existing conditions at the Colonial Village condominium complex located at Colonial Village Drive in Arlington (the Site) on July 12, 2021. The purpose of the review was to identify wetland resource areas on and near the site. The site consists of multiple condominium/apartment buildings with associated paved driveways, parking areas, landscaped areas, etc. The weather on July 12th was overcast, warm (approximately 65 degrees), and damp from occasional showers. Wetland resource areas are located on the near western and southern portion of the site associated with a U.S.G.S. mapped perennial stream that flows within a concrete walled stream system. The perennial stream flows from the Arlington Reservoir and is channelized by concrete walls on either side. The concrete walls function as Inland Banks to the stream. There are no vegetated wetlands associated with this stream. For reference, ECR hung Inland Bank flags #IB1 to #IB17 at the top of the Inland Bank/concrete wall of this stream facing the site. As a result of ECR's site, ECR is able to confirm that the site contains the following wetland resource areas and areas of Conservation Commission jurisdiction:

- Inland Bank of a perennial stream
- 100-foot Buffer Zone to Inland Bank
- 200-foot Riverfront Area
- Bordering Land Subject to Flooding (FEMA AE Zone)

Also review of the MassGIS wetlands database reveals the following:

1. The site is not located within Estimated/Priority Habitat for Rare Species according to the Massachusetts Natural Heritage & Endangered Species Program (MaNHESP).
2. The site does not contain Certified Vernal Pools according to the MaNHESP.
3. The site is not located within an Area of Critical Environmental Concern.

Upon review of this wetland delineation memo, please contact me at (617) 529 – 3792 or brad@ecrwetlands.com with any questions or requests for additional information.

Thank you,
Brad Holmes, Professional Wetland Scientist #1464
Manager

SECTION III

**WPA Wetland Fee Transmittal Form
Copy of Checks**



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

Colonial Village Drive

a. Street Address

000088

c. Check number

Arlington

b. City/Town

\$2,237.50

d. Fee amount

2. Applicant Mailing Address:

a. First Name

Colonial Village Condominium Trust

c. Organization

15 Tremont Street PH1

d. Mailing Address

Boston

e. City/Town

617-423-7000

h. Phone Number

i. Fax Number

MA

f. State

02111

g. Zip Code

afoley@firstrealtymgt.com

j. Email Address

3. Property Owner (if different):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
2b - Parking Lot	1	\$500.00	\$500.00
2g - Each project source discharge	5	\$500.00	\$2,500.00
Step 5/Total Project Fee:			\$3,000 x 1.5 = \$4,500

Step 6/Fee Payments:

Total Project Fee:	\$4,500.00
	a. Total Fee from Step 5
State share of filing Fee:	\$2,237.50
	b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:	\$2,262.50
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
Box 4062
Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Wetlands & Waterways
BRP WPA Form 3 - Notice of Intent
Instructions and Supporting Materials

Category Activities and Fees

Category 1 (Fee for each activity is **\$110**):

- a.) work on single family lot; addition, pool, etc.;
- b.) site work without a house;
- c.) control vegetation;
- d.) resource improvement;
- e.) work on septic system separate from house;
- f.) monitoring well activities minus roadway;
- g.) new agricultural or aquaculture projects.

Category 2 (Fee for each activity is **\$500**):

- a.) construction of single family house;
- b.) parking lot;
- c.) beach nourishment;
- d.) coastal limited projects;
- e.) inland limited projects minus road crossings and agriculture;
- f.) each crossing for driveway to single family house;
- g.) each project source (storm drain) discharge;
- h.) control vegetation in development;
- i.) water level variations;
- j.) any other activity not in Category 1, 3, 4, 5 or 6;
- k.) water supply exploration.

Category 3 (Fee for each activity is **\$1,050**):

- a.) site preparation (for development) beyond Notice of Intent scope;
- b.) each building (for development) including site;
- c.) road construction not crossing or driveway;
- d.) hazardous cleanup;
- e.) water supply development.

Category 4 (Fee for each activity is **\$1,450**):

- a.) each crossing for development or commercial road;
- b.) dam, sluiceway, tidegate (safety) work;
- c.) landfills operation/closures;
- d.) sand and gravel operations;
- e.) railroad line construction;
- f.) bridge;
- g.) hazardous waste alterations to resource areas;
- h.) dredging;
- i.) package treatment plant and discharge;
- j.) airport tree clearing;
- k.) oil and/or hazardous material release response actions.

Category 5 (Fee is **\$4 per linear foot**; total fee not less than \$100 or more than \$2,000):

- a.) work on docks, piers, revetments, dikes, etc. (coastal or inland).

Category 6 (Fee is **\$2 per linear foot for each resource area**): **For each resource area delineation, the fee shall not exceed \$200 for activities associated with a single family house or \$2,000 for all other activities).**

Colonial Village Condominium151 Tremont Street
Boston, MA 02111

CIT Bank

27-289/1040

000085

Date
11/04/2021Check
000085Pay This Amount
\$*****200.00**Two Hundred and no/100 DOLLARS*******

Pay to the order of

Town of Arlington
PO Box 248
Arlington, MA 02476-0990*Frank Cotella*

SECURITY FEATURES INCLUDE MICROPRINTING • VOID PANTOGRAPH • ENDORSEMENT BACKER • BROWNSTAIN CHEMICAL REACTANT Authorized Signature - Not Valid after 90 Days

⑈000085⑈ ⑆104002894⑆ 276549766⑈

Colonial Village Condominium151 Tremont Street
Boston, MA 02111

CIT Bank

27-289/1040

000088

Date
11/16/2021Check
000088Pay This Amount
\$*****2,237.50**Two Thousand Two Hundred Thirty-Seven and 50/100 DOLLARS*******

Pay to the order of

Commonwealth Of
Massachusetts*Frank Cotella*

SECURITY FEATURES INCLUDE MICROPRINTING • VOID PANTOGRAPH • ENDORSEMENT BACKER • BROWNSTAIN CHEMICAL REACTANT Authorized Signature - Not Valid after 90 Days

⑈000088⑈ ⑆104002894⑆ 276549766⑈

Colonial Village Condominium151 Tremont Street
Boston, MA 02111

CIT Bank

27-289/1040

000089

Date
11/16/2021Check
000089Pay This Amount
\$*****2,262.50**Two Thousand Two Hundred Sixty-Two and 50/100 DOLLARS*******

Pay to the order of

Town of Arlington
PO Box 248
Arlington, MA 02476-0990*Frank Cotella*

SECURITY FEATURES INCLUDE MICROPRINTING • VOID PANTOGRAPH • ENDORSEMENT BACKER • BROWNSTAIN CHEMICAL REACTANT Authorized Signature - Not Valid after 90 Days

⑈000089⑈ ⑆104002894⑆ 276549766⑈

S E C T I O N I V

Certified List of Abutters Assessors Map



Office of the
Board of Assessors
Robbins Memorial Town Hall
Arlington, MA 02476
(781) 316-3050
Assessors@town.arlington.ma.us

Abutters List

Date: August 02, 2021

Subject Property Address: COLONIAL VILLAGE DRIVE CONDOMINIUM COMPLEX Arlington, MA
Subject Property ID: MULTIPLE

Search Distance: 100 Feet

The Board of Assessors certifies the names and addresses of requested parties in interest, all abutters within 100 feet of the property lines, of subject property.

A handwritten signature in black ink, appearing to read "Robert E. Greeley". The signature is fluid and cursive, with a large, stylized initial "R".

Board of Assessors

Abutters List

Date: August 02, 2021

Subject Property Address: COLONIAL VILLAGE DRIVE
CONDOMINIUM CONMPLEX Arlington, MA
Subject Property ID: Multiple

Search Distance: 100 Feet

Prop ID: 60-1-11.A
Prop Location: 1395 MASS AVE Arlington, MA
Owner: SZR ARLINGTON, MA
Co-Owner: ASSISTED LIVING, L.L.C
Mailing Address:
C/O ALTUS/VENTAS #4051
PO BOX 71970
PHOENIX, AZ 85050

Prop ID: 60-2-2
Prop Location: 14 RESERVOIR RD Arlington, MA
Owner: WRIGHT BRUCE & SUSAN
Co-Owner:
Mailing Address:
14 RESERVOIR RD
ARLINGTON, MA 02474

Prop ID: 60-2-3
Prop Location: 10 RESERVOIR RD Arlington, MA
Owner: MARKELZ JOHN W III &
Co-Owner: MARKELZ MAUREEN A
Mailing Address:
10 RESERVOIR RD
ARLINGTON, MA 02474

Prop ID: 60-3-1
Prop Location: 158 LOWELL ST Arlington, MA
Owner: BOWEN R DAVID
Co-Owner: BOWEN HEATHER M
Mailing Address:
158 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 60-3-2
Prop Location: 156 LOWELL ST Arlington, MA
Owner: WOLFE JACK G & KELLY W
Co-Owner:
Mailing Address:
156 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 60-3-6
Prop Location: 11 RESERVOIR RD Arlington, MA
Owner: BIALACH ELIZABETH & JAN
Co-Owner:
Mailing Address:
11 RESERVOIR ROAD
ARLINGTON, MA 02474

Prop ID: 60-3-7
Prop Location: 15 RESERVOIR RD Arlington, MA
Owner: FISHER ALEXANDRA K/ TRUSTEE
Co-Owner: ALEXANDRA K FISHER TRUST
Mailing Address:
15 RESERVOIR ROAD
ARLINGTON, MA 02474

Prop ID: 61-1-10
Prop Location: 182 LOWELL ST Arlington, MA
Owner: SANTOS-KUSHNIRSKY MARIA B
Co-Owner:
Mailing Address:
182 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-12
Prop Location: 174 LOWELL ST Arlington, MA
Owner: CASSIDY NOEL F/TRUSTEE
Co-Owner: NOEL F CASSIDY REVOCABLE
Mailing Address:
174 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-13
Prop Location: 170 LOWELL ST Arlington, MA
Owner: HARGRAVE SUSAN
Co-Owner:
Mailing Address:
170 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-14
Prop Location: 166 LOWELL ST Arlington, MA
Owner: VALLARINO JOSE A/MARY ALICE
Co-Owner:
Mailing Address:
166 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-15
Prop Location: 162 LOWELL ST Arlington, MA
Owner: TUCCITTO SALVATORE
Co-Owner:
Mailing Address:
162 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-2.A
Prop Location: 176 LOWELL ST Arlington, MA
Owner: BURGE ROBERT S
Co-Owner:
Mailing Address:
PO BOX 134
LEXINGTON, MA 02474

Prop ID: 61-1-3
Prop Location: 0-LOT MASS AVE Arlington, MA
Owner: TOWN OF ARLINGTON PARK
Co-Owner:
Mailing Address:
730 MASS AVE
ARLINGTON, MA 02476

Prop ID: 61-1-4
Prop Location: 0-LOT LOWELL ST Arlington, MA
Owner: TOWN OF ARLINGTON PARK
Co-Owner:
Mailing Address:
730 MASS AVE
ARLINGTON, MA 02476

Prop ID: 61-1-5
Prop Location: 202 LOWELL ST Arlington, MA
Owner: YOUNG DOUGLAS W & CATHRINE K
Co-Owner:
Mailing Address:
202 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 61-1-6
Prop Location: 198 LOWELL ST Arlington, MA
Owner: SCHWARTZ ELIZABETH
Co-Owner:
Mailing Address:
198 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-7
Prop Location: 194 LOWELL ST Arlington, MA
Owner: BULL PETER
Co-Owner: DOIDGE THEA
Mailing Address:
194 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 61-1-8
Prop Location: 190 LOWELL ST Arlington, MA
Owner: FRY JEFFERY &
Co-Owner: FRY KATE SWEENEY
Mailing Address:
190 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-1-9
Prop Location: 186 LOWELL ST Arlington, MA
Owner: CONNELL ELLEN H
Co-Owner:
Mailing Address:
186 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-2-1
Prop Location: 167 LOWELL ST Arlington, MA
Owner: MAGUIRE SUZANNE W
Co-Owner:
Mailing Address:
167 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 61-2-2
Prop Location: 175 LOWELL ST Arlington, MA
Owner: HILL GORDON W
Co-Owner: CARLSON-HILL LISA
Mailing Address:
175 LOWELL STREET
ARLINGTON, MA 02474

Prop ID: 61-2-2.A
Prop Location: 169-171 LOWELL ST Arlington, MA
Owner: CARLSON-HILL LISA K ETAL/ TRS
Co-Owner: ELNA M CARLSON REVOCABLE TRUST
Mailing Address:
175 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-2-3
Prop Location: 187 LOWELL ST Arlington, MA
Owner: GRINNELL CHARLES & CAROLINE
Co-Owner:
Mailing Address:
187 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61-2-3.1
Prop Location: 181 LOWELL ST Arlington, MA
Owner: GRINNELL CHARLES & CAROLINE
Co-Owner:
Mailing Address:
187 LOWELL ST
ARLINGTON, MA 02474

Prop ID: 61.A-10-1
Prop Location: 10 COLONIAL VILLAGE DR UNIT J1
Arlington, MA
Owner: VALLE ALISON Y
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

Prop ID: 61.A-10-10
Prop Location: 10 COLONIAL VILLAGE DR UNIT J10
Arlington, MA
Owner: SULLIVAN ROSEMARY T
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

Prop ID: 61.A-10-11
Prop Location: 10 COLONIAL VILLAGE DR UNIT J11
Arlington, MA
Owner: GILLIGAN BARBARA YEM- HANG/ TRS
Co-Owner: BARBARA YEM-HANG GILLIGAN
Mailing Address:
10 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-10-12
Prop Location: 10 COLONIAL VILLAGE DR UNIT J12
Arlington, MA
Owner: BRASIL DEASSIS MORAES GUSTAVO
Co-Owner: SOARES CRISTIANE
Mailing Address:
10 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-10-2
Prop Location: 10 COLONIAL VILLAGE DR UNIT J2
Arlington, MA
Owner: IORDANIDIS ATHINA
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-10-3
Prop Location: 10 COLONIAL VILLAGE DR UNIT J3
Arlington, MA
Owner: ROGERS BRUCE LEE
Co-Owner: LI JINYU
Mailing Address:
107 PINE ST
WOBBURN, MA 01801-3373

Prop ID: 61.A-10-4
Prop Location: 10 COLONIAL VILLAGE DR UNIT J4
Arlington, MA
Owner: VAN RHEENEN CONNIE
Co-Owner:
Mailing Address:
38 BRADBURY STREET
CAMBRIDGE, MA 02138

Prop ID: 61.A-10-5
Prop Location: 10 COLONIAL VILLAGE DR UNIT J5
Arlington, MA
Owner: ABUGOV GREGORY & VICTORIA
Co-Owner:
Mailing Address:
16 ENDICOTT PL
CANTON, MA 02021

Prop ID: 61.A-10-6
Prop Location: 10 COLONIAL VILLAGE DR UNIT J6
Arlington, MA
Owner: PINE DANIEL R
Co-Owner:
Mailing Address:
51 STOWCROFT RD
ARLINGTON, MA 02474

Prop ID: 61.A-10-7
Prop Location: 10 COLONIAL VILLAGE DR UNIT J7
Arlington, MA
Owner: HAN XIAOGANG &
Co-Owner: DONG JENNIFER
Mailing Address:
508 LOWELL ST
LEXINGTON, MA 02420

Prop ID: 61.A-10-8
Prop Location: 10 COLONIAL VILLAGE DR UNIT J8
Arlington, MA
Owner: LIN ZHOUFANG
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

Prop ID: 61.A-10-9
Prop Location: 10 COLONIAL VILLAGE DR UNIT J9
Arlington, MA
Owner: CHAN MARY KAR-MI
Co-Owner:
Mailing Address:
10 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-1-1
Prop Location: 1 COLONIAL VILLAGE DR UNIT A1
Arlington, MA
Owner: BAGWADIA ZUBIN ETAL TR
Co-Owner: HOPE CYRUS BAGWADIA
Mailing Address:
87 OAK RIDGE TER
LYNNFIELD, MA 01940

Prop ID: 61.A-1-10
Prop Location: 1 COLONIAL VILLAGE DR UNIT A10
Arlington, MA
Owner: ZHOU XIAOXIONG
Co-Owner: A/K/A ZHOU FLORA
Mailing Address:
6195 HARDY DR
MCLEAN, VA 22101

Prop ID: 61.A-1-11
Prop Location: 1 COLONIAL VILLAGE DR UNIT A11
Arlington, MA
Owner: BARRY ELLEN J
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-11-1
Prop Location: 11 COLONIAL VILLAGE DR UNIT K1
Arlington, MA
Owner: LOPEZ DAVID
Co-Owner: QUIROS LOURDES
Mailing Address:
146 OAKLAND ST
MALDEN, MA 02148

Prop ID: 61.A-11-10
Prop Location: 11 COLONIAL VILLAGE DR UNIT K10
Arlington, MA
Owner: LOPEZ DAVID F
Co-Owner: QUIROS LOURDES
Mailing Address:
146 OAKLAND ST
MALDEN, MA 02148

Prop ID: 61.A-11-11
Prop Location: 11 COLONIAL VILLAGE DR UNIT K11
Arlington, MA
Owner: HIGGINS JAMES F
Co-Owner:
Mailing Address:
4836 COMANCHE TRAIL
PRESCOTT, AZ 86301

Prop ID: 61.A-11-12
Prop Location: 11 COLONIAL VILLAGE DR UNIT K12
Arlington, MA
Owner: WALKER KATHRYN R
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-1-12
Prop Location: 1 COLONIAL VILLAGE DR UNIT A12
Arlington, MA
Owner: MA ZHOUYANG
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-11-2
Prop Location: 11 COLONIAL VILLAGE DR UNIT K2
Arlington, MA
Owner: TIERNEY LAURA J TRUSTEE
Co-Owner: PIANTES SOUTH MIDDLESEX COUNTY
Mailing Address:
216 RANGEWAY RD UNIT 142
NORTH BILLERICA, MA 01862

Prop ID: 61.A-11-3
Prop Location: 11 COLONIAL VILLAGE DR UNIT K3
Arlington, MA
Owner: DIMILLA JULIE ELIZABETH
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-11-4
Prop Location: 11 COLONIAL VILLAGE DR UNIT K4
Arlington, MA
Owner: TU WENHONG
Co-Owner:
Mailing Address:
26 SADDLE CLUB RD
LEXINGTON, MA 02420

Prop ID: 61.A-11-5
Prop Location: 11 COLONIAL VILLAGE DR UNIT K5
Arlington, MA
Owner: LOPEZ DAVID F
Co-Owner: QUIROS LOURDES
Mailing Address:
146 OAKLAND ST
MALDEN, MA 02148

Prop ID: 61.A-11-6
Prop Location: 11 COLONIAL VILLAGE DR UNIT K6
Arlington, MA
Owner: VAN MOORTELE MARJORIE
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-11-7
Prop Location: 11 COLONIAL VILLAGE DR UNIT K7
Arlington, MA
Owner: TU WENJIE
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-11-8
Prop Location: 11 COLONIAL VILLAGE DR UNIT K8
Arlington, MA
Owner: BURKE CHARLES TR
Co-Owner: TR OF S.R. REALTY TRUST
Mailing Address:
C/O LOUIS SARTORI
11 FAIRWAY DR
STOW, MA 01775

Prop ID: 61.A-11-9
Prop Location: 11 COLONIAL VILLAGE DR UNIT K9
Arlington, MA
Owner: VEZNAIAN MARY
Co-Owner:
Mailing Address:
11 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-1-2
Prop Location: 1 COLONIAL VILLAGE DR UNIT A2
Arlington, MA
Owner: HERZBERG LORRIE
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-12-1
Prop Location: 12 COLONIAL VILLAGE DR UNIT L1
Arlington, MA
Owner: SONAM TENZIN
Co-Owner:
Mailing Address:
4 BRIDLE PATH
SUDBURY, MA 01776

Prop ID: 61.A-12-10
Prop Location: 12 COLONIAL VILLAGE DR UNIT L10
Arlington, MA
Owner: SHARP JOHN D & KENNETH G/ TRS
Co-Owner: 2019 CLIFFORD A SHARP
Mailing Address:
12 COLONIAL VILLAGE DR
UNIT 10
ARLINGTON, MA 02474

Prop ID: 61.A-12-11
Prop Location: 12 COLONIAL VILLAGE DR UNIT L11
Arlington, MA
Owner: MURPHY EDWARD
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR UNIT 11
ARLINGTON, MA 02474

Prop ID: 61.A-12-12
Prop Location: 12 COLONIAL VILLAGE DR UNIT L12
Arlington, MA
Owner: BAI DONGFANG
Co-Owner: FEI XINGYUAN
Mailing Address:
12 COLONIAL VILLAGE DR
APT 12
ARLINGTON, MA 02474

Prop ID: 61.A-12-2
Prop Location: 12 COLONIAL VILLAGE DR UNIT L2
Arlington, MA
Owner: LAZURE PETER B/ LIFE ESTATE
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR
UNIT 2
ARLINGTON, MA 02474

Prop ID: 61.A-12-3
Prop Location: 12 COLONIAL VILLAGE DR UNIT L3
Arlington, MA
Owner: DAY STEVEN J
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-12-4
Prop Location: 12 COLONIAL VILLAGE DR UNIT L4
Arlington, MA
Owner: JONES MARILYN J & RICHARD C/ TRS
Co-Owner: JONES 2020 FAMILY TRUST
Mailing Address:
225 PHEASANT AVE
ARLINGTON, MA 02474

Prop ID: 61.A-12-5
Prop Location: 12 COLONIAL VILLAGE DR UNIT L5
Arlington, MA
Owner: MORILLO-TAYLOR LILIANA
Co-Owner:
Mailing Address:
2675 MONTROSE PL
SANTA BARBARA, CA 93105

Prop ID: 61.A-12-6
Prop Location: 12 COLONIAL VILLAGE DR UNIT L6
Arlington, MA
Owner: KUNWAR CHHABINDRA
Co-Owner: KUNWAR SUSHMA
Mailing Address:
12 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-12-7
Prop Location: 12 COLONIAL VILLAGE DR UNIT L7
Arlington, MA
Owner: MISAWA TAKAKO
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-12-8
Prop Location: 12 COLONIAL VILLAGE DR UNIT L8
Arlington, MA
Owner: NGUYEN CHIEN VIET
Co-Owner: VO DUNG NGOC
Mailing Address:
12 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

Prop ID: 61.A-12-9
Prop Location: 12 COLONIAL VILLAGE DR UNIT L9
Arlington, MA
Owner: FERREIRA JOYCE P
Co-Owner:
Mailing Address:
12 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-1-3
Prop Location: 1 COLONIAL VILLAGE DR UNIT A3
Arlington, MA
Owner: FARINO CARLOS
Co-Owner: FARINO-VIDAL ZORAYDA
Mailing Address:
4 SYLVIA ST
LEXINGTON, MA 02421

Prop ID: 61.A-1-4
Prop Location: 1 COLONIAL VILLAGE DR UNIT A4
Arlington, MA
Owner: HE JIANG
Co-Owner: YAO TIANQING
Mailing Address:
1 COLONIAL VILLAGE DR
#4
ARLINGTON, MA 02474

Prop ID: 61.A-1-5
Prop Location: 1 COLONIAL VILLAGE DR UNIT A5
Arlington, MA
Owner: WU DAI
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

Prop ID: 61.A-1-6
Prop Location: 1 COLONIAL VILLAGE DR UNIT A6
Arlington, MA
Owner: CARSER DIANE L
Co-Owner:
Mailing Address:
1 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-1-7
Prop Location: 1 COLONIAL VILLAGE DR UNIT A7
Arlington, MA
Owner: ISMAYLOV DMITRIY
Co-Owner:
Mailing Address:
48 SHADY HILL RD
WESTON, MA 02493

Prop ID: 61.A-1-8
Prop Location: 1 COLONIAL VILLAGE DR UNIT A8
Arlington, MA
Owner: WANG PINGLANG & YING
Co-Owner:
Mailing Address:
35 SKYLINE DR
STATEN ISLAND, NY 10304

Prop ID: 61.A-1-9
Prop Location: 1 COLONIAL VILLAGE DR UNIT A9
Arlington, MA
Owner: SABIO DARIO R & JOSEFINA B/TRS
Co-Owner: SABIO FMLY REVOCABLE LIVING TR
Mailing Address:
10598 SANTERNO ST
LAS VEGAS, NV 89141

Prop ID: 61.A-2-1
Prop Location: 2 COLONIAL VILLAGE DR UNIT B1
Arlington, MA
Owner: DONG JENNIFER Q
Co-Owner: HAN XIAOGANG
Mailing Address:
508 LOWELL ST
LEXINGTON, MA 02420

Prop ID: 61.A-2-10
Prop Location: 2 COLONIAL VILLAGE DR UNIT B10
Arlington, MA
Owner: TAM THOMAS &
Co-Owner: TAM WINNIE YIN
Mailing Address:
25 WINCHESTER DRIVE
LEXINGTON, MA 02420

Prop ID: 61.A-2-11
Prop Location: 2 COLONIAL VILLAGE DR UNIT B11
Arlington, MA
Owner: RAMSAY RAYLENE L
Co-Owner:
Mailing Address:
2 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-2-12
Prop Location: 2 COLONIAL VILLAGE DR UNIT B12
Arlington, MA
Owner: TANO YUKI NOBU
Co-Owner:
Mailing Address:
2 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-2-2
Prop Location: 2 COLONIAL VILLAGE DR UNIT B2
Arlington, MA
Owner: SQUIRES PROPERTIES LLC
Co-Owner:
Mailing Address:
344 BISHOPS FOREST DR
WALTHAM, MA 02452

Prop ID: 61.A-2-3
Prop Location: 2 COLONIAL VILLAGE DR UNIT B3
Arlington, MA
Owner: BERGMAN BRUCE L
Co-Owner:
Mailing Address:
2 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-2-4
Prop Location: 2 COLONIAL VILLAGE DR UNIT B4
Arlington, MA
Owner: LEDDY WILLIAM A
Co-Owner:
Mailing Address:
2 COLONIAL VILLAGE DR #4
ARLINGTON, MA 02474

Prop ID: 61.A-2-5
Prop Location: 2 COLONIAL VILLAGE DR UNIT B5
Arlington, MA
Owner: ZHANG YUANYE
Co-Owner: HAO XINMING
Mailing Address:
60 ALBEMARLE AVE
LEXINGTON, MA 02420

Prop ID: 61.A-2-6
Prop Location: 2 COLONIAL VILLAGE DR UNIT B6
Arlington, MA
Owner: MORONEY KEVIN F & PAUL R/TRS
Co-Owner: MORONEY FAMILY REALTY TRUST
Mailing Address:
2 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-2-7
Prop Location: 2 COLONIAL VILLAGE DR UNIT B7
Arlington, MA
Owner: QUAN SUSAN
Co-Owner:
Mailing Address:
67 SLADE ST
BELMONT, MA 02478

Prop ID: 61.A-2-8
Prop Location: 2 COLONIAL VILLAGE DR UNIT B8
Arlington, MA
Owner: WANG ROBERT T & KATHY K/TRS
Co-Owner: WANG REALTY TRUST
Mailing Address:
402 HEATHER DR
LYNNFIELD, MA 01940

Prop ID: 61.A-2-9
Prop Location: 2 COLONIAL VILLAGE DR UNIT B9
Arlington, MA
Owner: WANG LIANGYUN
Co-Owner:
Mailing Address:
75 SAINT ALPHONSUS ST
BOSTON, MA 02120

Prop ID: 61.A-3-1
Prop Location: 3 COLONIAL VILLAGE DR UNIT C1
Arlington, MA
Owner: COSTA MARIA C
Co-Owner:
Mailing Address:
39 BENTON RD
SOMERVILLE, MA 02143

Prop ID: 61.A-3-10
Prop Location: 3 COLONIAL VILLAGE DR UNIT C10
Arlington, MA
Owner: CRONIN WILLIAM E JR
Co-Owner:
Mailing Address:
327 LOWELL ST
LEXINGTON, MA 02420

Prop ID: 61.A-3-11
Prop Location: 3 COLONIAL VILLAGE DR UNIT C11
Arlington, MA
Owner: KINIRY JOHN J JR
Co-Owner:
Mailing Address:
3 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-3-12
Prop Location: 3 COLONIAL VILLAGE DR UNIT C12
Arlington, MA
Owner: YANG YALAN
Co-Owner:
Mailing Address:
3 COLONIAL VILLAGE DR # 12
ARLINGTON, MA 02474

Prop ID: 61.A-3-2
Prop Location: 3 COLONIAL VILLAGE DR UNIT C2
Arlington, MA
Owner: BENNETT FREDERICK
Co-Owner: BENNETT YUAN WEI MARY
Mailing Address:
3 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-3-3
Prop Location: 3 COLONIAL VILLAGE DR UNIT C3
Arlington, MA
Owner: LEE RICHARD
Co-Owner:
Mailing Address:
3 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-3-4
Prop Location: 3 COLONIAL VILLAGE DR UNIT C4
Arlington, MA
Owner: ARLINGTON COLONIAL LLC
Co-Owner:
Mailing Address:
26 SADDLE CLUB RD
LEXINGTON, MA 02420

Prop ID: 61.A-3-5
Prop Location: 3 COLONIAL VILLAGE DR UNIT C5
Arlington, MA
Owner: FENG DUANSI
Co-Owner:
Mailing Address:
3 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

Prop ID: 61.A-3-6
Prop Location: 3 COLONIAL VILLAGE DR UNIT C6
Arlington, MA
Owner: THAMES THOMAS L
Co-Owner: THAMES ELLEN M
Mailing Address:
3 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-3-7
Prop Location: 3 COLONIAL VILLAGE DR UNIT C7
Arlington, MA
Owner: CAMERON MELANIE
Co-Owner:
Mailing Address:
9 PRINCETON ROAD
ARLINGTON, MA 02474

Prop ID: 61.A-3-8
Prop Location: 3 COLONIAL VILLAGE DR UNIT C8
Arlington, MA
Owner: WANG ROBERT T & KATHY K/TRS
Co-Owner: WANG REALTY TRUST
Mailing Address:
402 HEATHER RD
LYNNFIELD, MA 01940

Prop ID: 61.A-3-9
Prop Location: 3 COLONIAL VILLAGE DR UNIT C9
Arlington, MA
Owner: LARSEN DAVID L
Co-Owner:
Mailing Address:
14 WESTERN AVE UNIT 2
GLOUCESTER, MA 01930

Prop ID: 61.A-4-1
Prop Location: 4 COLONIAL VILLAGE DR UNIT D1
Arlington, MA
Owner: JUNG JONATHAN
Co-Owner:
Mailing Address:
4 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

Prop ID: 61.A-4-10
Prop Location: 4 COLONIAL VILLAGE DR UNIT D10
Arlington, MA
Owner: THOMPSON JOHN R & JUDITH
Co-Owner:
Mailing Address:
20 CONNOLLY RD
BILLERICA, MA 01821

Prop ID: 61.A-4-11
Prop Location: 4 COLONIAL VILLAGE DR UNIT D11
Arlington, MA
Owner: ONEIL EMILY
Co-Owner:
Mailing Address:
4 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-4-12
Prop Location: 4 COLONIAL VILLAGE DR UNIT D12
Arlington, MA
Owner: COMMONWEALTH BOSTON REALTY LLC
Co-Owner:
Mailing Address:
111 PERKINS STREET #303
JAMAICA PLAIN, MA 02130

Prop ID: 61.A-4-2
Prop Location: 4 COLONIAL VILLAGE DR UNIT D2
Arlington, MA
Owner: COLONIAL VILLAGE CONDOMINIUM
Co-Owner: TRUST
Mailing Address:
C/O DEPT 368 FIRST REALTY MANAGEMENT COR
PO BOX 4579
HOUSTON, TX 77210-4579

Prop ID: 61.A-4-3
Prop Location: 4 COLONIAL VILLAGE DR UNIT D3
Arlington, MA
Owner: JOHNSON CARL R
Co-Owner:
Mailing Address:
75 WILSON RD
BEDFORD, MA 01730

Prop ID: 61.A-4-4
Prop Location: 4 COLONIAL VILLAGE DR UNIT D4
Arlington, MA
Owner: KHADKA SANDEEP
Co-Owner: THAPA SRISHA
Mailing Address:
4 COLONIAL VILLAGE DR #4
ARLINGTON, MA 02474

Prop ID: 61.A-4-5
Prop Location: 4 COLONIAL VILLAGE DR UNIT D5
Arlington, MA
Owner: JENNINGS LAURIE/TRUSTEE
Co-Owner: SANDRA L FJELD 2017 IRREVOCABL
Mailing Address:
4 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

Prop ID: 61.A-4-6
Prop Location: 4 COLONIAL VILLAGE DR UNIT D6
Arlington, MA
Owner: MANANDHAR ANILA
Co-Owner:
Mailing Address:
2 ST MARY'S RD
BURLINGTON, MA 01803

Prop ID: 61.A-4-7
Prop Location: 4 COLONIAL VILLAGE DR UNIT D7
Arlington, MA
Owner: CHEN YU
Co-Owner: ZHENG YINGNING
Mailing Address:
4 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-4-8
Prop Location: 4 COLONIAL VILLAGE DR UNIT D8
Arlington, MA
Owner: XIE CHAO
Co-Owner: YAN MINGLI
Mailing Address:
47 SOMERSET RD
LEXINGTON, MA 02420

Prop ID: 61.A-4-9
Prop Location: 4 COLONIAL VILLAGE DR UNIT D9
Arlington, MA
Owner: KIM MYUNG HEE
Co-Owner:
Mailing Address:
131 COOLIDGE AVE UNIT 128
WATERTOWN, MA 02472-2847

Prop ID: 61.A-5-1
Prop Location: 5 COLONIAL VILLAGE DR UNIT E1
Arlington, MA
Owner: LEXINGTON REALTY HOLDINGS LLC
Co-Owner:
Mailing Address:
PO BOX 134
LEXINGTON, MA 02420

Prop ID: 61.A-5-10
Prop Location: 5 COLONIAL VILLAGE DR UNIT E10
Arlington, MA
Owner: OCALLAGHAN KELLY &
Co-Owner: SCHNEIDER BRENDYN
Mailing Address:
5 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

Prop ID: 61.A-5-11
Prop Location: 5 COLONIAL VILLAGE DR UNIT E11
Arlington, MA
Owner: CHENG HUI
Co-Owner: WANG HUI
Mailing Address:
5 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-5-12
Prop Location: 5 COLONIAL VILLAGE DR UNIT E12
Arlington, MA
Owner: HUANG GRACE
Co-Owner:
Mailing Address:
7 COOK RD
BURLINGTON, MA 01803

Prop ID: 61.A-5-2
Prop Location: 5 COLONIAL VILLAGE DR UNIT E2
Arlington, MA
Owner: CARON PROPERTIES LLC
Co-Owner:
Mailing Address:
23 MARRIGAN ST
ARLINGTON, MA 02474

Prop ID: 61.A-5-3
Prop Location: 5 COLONIAL VILLAGE DR UNIT E3
Arlington, MA
Owner: SMITH IRENE H
Co-Owner:
Mailing Address:
5 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-5-4
Prop Location: 5 COLONIAL VILLAGE DR UNIT E4
Arlington, MA
Owner: JAIN SUJIT G
Co-Owner: GOLECHA PRATIBHA S
Mailing Address:
30 APPLETON PL UNIT 2
ARLINGTON, MA 02476

Prop ID: 61.A-5-5
Prop Location: 5 COLONIAL VILLAGE DR UNIT E5
Arlington, MA
Owner: WU PHILIP C
Co-Owner:
Mailing Address:
10 BROADWAY PL APT 3
SOMERVILLE, MA 02145

Prop ID: 61.A-5-6
Prop Location: 5 COLONIAL VILLAGE DR UNIT E6
Arlington, MA
Owner: GROSS GERALDINE R
Co-Owner:
Mailing Address:
5 COLONIAL VILLAGE DR #6
ARLINGTON, MA 02474

Prop ID: 61.A-5-7
Prop Location: 5 COLONIAL VILLAGE DR UNIT E7
Arlington, MA
Owner: AHMARI SOHRAB
Co-Owner:
Mailing Address:
5 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-5-8
Prop Location: 5 COLONIAL VILLAGE DR UNIT E8
Arlington, MA
Owner: MASKEY ANURAG
Co-Owner: SHRESTHA SHACHI
Mailing Address:
47 WALLACE ST
NEWTON HIGHLANDS, MA 02461

Prop ID: 61.A-5-9
Prop Location: 5 COLONIAL VILLAGE DR UNIT E9
Arlington, MA
Owner: LAWSON MARTHA A
Co-Owner:
Mailing Address:
70 MT VERNON ST
HAVERHILL, MA 01830

Prop ID: 61.A-6-1
Prop Location: 6 COLONIAL VILLAGE DR UNIT F1
Arlington, MA
Owner: MENDEZ VICTOR F
Co-Owner:
Mailing Address:
11 RICHARDSON RD
STONEHAM, MA 02180

Prop ID: 61.A-6-10
Prop Location: 6 COLONIAL VILLAGE DR UNIT F10
Arlington, MA
Owner: WOLFE DANIEL P
Co-Owner:
Mailing Address:
6 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

Prop ID: 61.A-6-11
Prop Location: 6 COLONIAL VILLAGE DR UNIT F11
Arlington, MA
Owner: HARRIS JEFFREY M
Co-Owner:
Mailing Address:
6 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-6-12
Prop Location: 6 COLONIAL VILLAGE DR UNIT F12
Arlington, MA
Owner: LEE FONG-CHANG
Co-Owner: LEE SHIU-IN
Mailing Address:
C/O JOSEPH LEE
1531 LUDINGTON AVE
WESLEY CHAPEL, FL 33543

Prop ID: 61.A-6-2
Prop Location: 6 COLONIAL VILLAGE DR UNIT F2
Arlington, MA
Owner: CATALDI MAUREEN
Co-Owner:
Mailing Address:
6 COLONIAL VILLAGE DR UNIT 2
ARLINGTON, MA 02474

Prop ID: 61.A-6-3
Prop Location: 6 COLONIAL VILLAGE DR UNIT F3
Arlington, MA
Owner: RANNEY ROGER ERIC
Co-Owner:
Mailing Address:
6 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-6-4
Prop Location: 6 COLONIAL VILLAGE DR UNIT F4
Arlington, MA
Owner: MEI KATHY XIUWEN
Co-Owner:
Mailing Address:
32 ARCOLA ST
LEXINGTON, MA 02420

Prop ID: 61.A-6-5
Prop Location: 6 COLONIAL VILLAGE DR UNIT F5
Arlington, MA
Owner: KIM KYUNGSANG
Co-Owner: SONG DU RI
Mailing Address:
6 COLONIAL VILLAGE DR #5
ARLINGTON, MA 02474

Prop ID: 61.A-6-6
Prop Location: 6 COLONIAL VILLAGE DR UNIT F6
Arlington, MA
Owner: BRIGHTMAN HELEN A
Co-Owner:
Mailing Address:
13 EDSON ST
NASHUA, NH 03064

Prop ID: 61.A-6-7
Prop Location: 6 COLONIAL VILLAGE DR UNIT F7
Arlington, MA
Owner: MACAULEY LYNNE A
Co-Owner: BROWN ROBERT J
Mailing Address:
6 COLONIAL VILLAGE DR #7
ARLINGTON, MA 02474

Prop ID: 61.A-6-8
Prop Location: 6 COLONIAL VILLAGE DR UNIT F8
Arlington, MA
Owner: ZHANG YANFANG
Co-Owner: CUI JIKE
Mailing Address:
78 MAPLE ST
BELMONT, MA 02478

Prop ID: 61.A-6-9
Prop Location: 6 COLONIAL VILLAGE DR UNIT F9
Arlington, MA
Owner: PERKINS ELLIOTT W & ANITA C
Co-Owner: TRS/ PERKINS FAMILY TRUST
Mailing Address:
17 STEEPLE CHASE CIRCLE
WESTFORD, MA 01886

Prop ID: 61.A-7-1
Prop Location: 7 COLONIAL VILLAGE DR UNIT G1
Arlington, MA
Owner: DAWSON MATTHEW
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

Prop ID: 61.A-7-10
Prop Location: 7 COLONIAL VILLAGE DR UNIT G10
Arlington, MA
Owner: GIOVINAZZO EMMA
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02474

Prop ID: 61.A-7-11
Prop Location: 7 COLONIAL VILLAGE DR UNIT G11
Arlington, MA
Owner: MUSE CAROLYN M & JAMES A
Co-Owner:
Mailing Address:
1 PONDEROSA DR
PELHAM, NH 03076

Prop ID: 61.A-7-12
Prop Location: 7 COLONIAL VILLAGE DR UNIT G12
Arlington, MA
Owner: AUSTIN ALEXANDER B
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-7-2
Prop Location: 7 COLONIAL VILLAGE DR UNIT G2
Arlington, MA
Owner: JANTZ JOAN E
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-7-3
Prop Location: 7 COLONIAL VILLAGE DR UNIT G3
Arlington, MA
Owner: FARRELL MICHAEL W
Co-Owner: STEIN BRITTANY T
Mailing Address:
7 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-7-4
Prop Location: 7 COLONIAL VILLAGE DR UNIT G4
Arlington, MA
Owner: MAUGEL NATHAN/JENNIFER
Co-Owner:
Mailing Address:
60 MUNROE DR
EAST HAMPSTEAD, NH 03826

Prop ID: 61.A-7-5
Prop Location: 7 COLONIAL VILLAGE DR UNIT G5
Arlington, MA
Owner: SHIU PLACID K
Co-Owner:
Mailing Address:
19 GRANT PL
LEXINGTON, MA 02420

Prop ID: 61.A-7-6
Prop Location: 7 COLONIAL VILLAGE DR UNIT G6
Arlington, MA
Owner: MUTCH JESSICA E/ TRUSTEE
Co-Owner: JESSICA E MUTCH REVOCABLE
Mailing Address:
21 DEAN ST
BELMONT, MA 02478

Prop ID: 61.A-7-7
Prop Location: 7 COLONIAL VILLAGE DR UNIT G7
Arlington, MA
Owner: SIEGEL JULES
Co-Owner:
Mailing Address:
1010 WALTHAM ST APT 295
LEXINGTON, MA 02421

Prop ID: 61.A-7-8
Prop Location: 7 COLONIAL VILLAGE DR UNIT G8
Arlington, MA
Owner: ZHANG ZHENZHEN &
Co-Owner: CHEN KUN
Mailing Address:
58 CRESTVIEW RD
BELMONT, MA 02478

Prop ID: 61.A-7-9
Prop Location: 7 COLONIAL VILLAGE DR UNIT G9
Arlington, MA
Owner: SWARTS HEIDI
Co-Owner:
Mailing Address:
7 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-8-1
Prop Location: 8 COLONIAL VILLAGE DR UNIT H1
Arlington, MA
Owner: LEXINGTON REALTY HOLDINGS LLC
Co-Owner:
Mailing Address:
PO BOX 134
LEXINGTON, MA 02420

Prop ID: 61.A-8-10
Prop Location: 8 COLONIAL VILLAGE DR UNIT H10
Arlington, MA
Owner: JONAS MICHAEL
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR #10
ARLINGTON, MA 02476

Prop ID: 61.A-8-11
Prop Location: 8 COLONIAL VILLAGE DR UNIT H11
Arlington, MA
Owner: RAHMATPOUR SOHAILA--ETAL
Co-Owner: NAKHAEI HAMID
Mailing Address:
20 OVERBROOK DRIVE
WELLESLEY, MA 02482

Prop ID: 61.A-8-12
Prop Location: 8 COLONIAL VILLAGE DR UNIT H12
Arlington, MA
Owner: MILLER CHERYL S
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-8-2
Prop Location: 8 COLONIAL VILLAGE DR UNIT H2
Arlington, MA
Owner: KNIGHT WILL
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-8-3
Prop Location: 8 COLONIAL VILLAGE DR UNIT H3
Arlington, MA
Owner: TCHOUL SVIATOSLAV
Co-Owner: TCHOUL OKSANA & MAXIM
Mailing Address:
8 COLONIAL VILLAGE DR #3
ARLINGTON, MA 02474

Prop ID: 61.A-8-4
Prop Location: 8 COLONIAL VILLAGE DR UNIT H4
Arlington, MA
Owner: NADJARIAN VATCHE
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR
UNIT 4
ARLINGTON, MA 02474

Prop ID: 61.A-8-5
Prop Location: 8 COLONIAL VILLAGE DR UNIT H5
Arlington, MA
Owner: KING ALLISON J
Co-Owner:
Mailing Address:
32 RIVER ST
APT 2
CAMBRIDGE, MA 02139

Prop ID: 61.A-8-6
Prop Location: 8 COLONIAL VILLAGE DR UNIT H6
Arlington, MA
Owner: HUEY JEFFREY K
Co-Owner:
Mailing Address:
15 NORTH BEACON ST
UNIT 507
ALLSTON, MA 02134

Prop ID: 61.A-8-7
Prop Location: 8 COLONIAL VILLAGE DR UNIT H7
Arlington, MA
Owner: SHEEHAN KEVIN/ANDREA
Co-Owner:
Mailing Address:
228 FOX HILL RD
BURLINGTON, MA 01803

Prop ID: 61.A-8-8
Prop Location: 8 COLONIAL VILLAGE DR UNIT H8
Arlington, MA
Owner: RUSSO ANMARIE
Co-Owner:
Mailing Address:
8 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

Prop ID: 61.A-8-9
Prop Location: 8 COLONIAL VILLAGE DR UNIT H9
Arlington, MA
Owner: LIU QING
Co-Owner: LI SHUANGLIAN
Mailing Address:
8 COLONIAL VILLAGE DR #9
ARLINGTON, MA 02474

Prop ID: 61.A-9-1
Prop Location: 9 COLONIAL VILLAGE DR UNIT I1
Arlington, MA
Owner: GOODWIN DESIREE
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #1
ARLINGTON, MA 02474

Prop ID: 61.A-9-10
Prop Location: 9 COLONIAL VILLAGE DR UNIT I10
Arlington, MA
Owner: PRESTON DIANE
Co-Owner:
Mailing Address:
186 NEWPORT ST
ARLINGTON, MA 02476

Prop ID: 61.A-9-11
Prop Location: 9 COLONIAL VILLAGE DR UNIT I11
Arlington, MA
Owner: VALDETTARO VERONIQUE A
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #11
ARLINGTON, MA 02474

Prop ID: 61.A-9-12
Prop Location: 9 COLONIAL VILLAGE DR UNIT I12
Arlington, MA
Owner: FLEMING ELLEN T
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #12
ARLINGTON, MA 02474

Prop ID: 61.A-9-2
Prop Location: 9 COLONIAL VILLAGE DR UNIT 2
Arlington, MA
Owner: NEWMARK GERRY G
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #2
ARLINGTON, MA 02474

Prop ID: 61.A-9-3
Prop Location: 9 COLONIAL VILLAGE DR UNIT I3
Arlington, MA
Owner: ELBANNAN SAMAA
Co-Owner:
Mailing Address:
39 PINE HILL RD
BEDFORD, MA 01730

Prop ID: 61.A-9-4
Prop Location: 9 COLONIAL VILLAGE DR UNIT I4
Arlington, MA
Owner: DONOVAN JOANNE
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #14
ARLINGTON, MA 02474

Prop ID: 61.A-9-5
Prop Location: 9 COLONIAL VILLAGE DR UNIT I5
Arlington, MA
Owner: LAI RALPH W M & CINDY S T
Co-Owner:
Mailing Address:
28 CORNERSTONE CT
DOYLESTOWN, PA 18901

Prop ID: 61.A-9-6
Prop Location: 9 COLONIAL VILLAGE DR UNIT I6
Arlington, MA
Owner: WANG PINGLANG & YING
Co-Owner:
Mailing Address:
35 SKYLINE DR
STATEN ISLAND, NY 10304

Prop ID: 61.A-9-7
Prop Location: 9 COLONIAL VILLAGE DR UNIT I7
Arlington, MA
Owner: ZHANG YANFANG &
Co-Owner: CUI JIKE
Mailing Address:
78 MAPLE ST
BELMONT, MA 02478

Prop ID: 61.A-9-8
Prop Location: 9 COLONIAL VILLAGE DR UNIT I8
Arlington, MA
Owner: SHINGU IKUE
Co-Owner:
Mailing Address:
9 COLONIAL VILLAGE DR #8
ARLINGTON, MA 02474

Prop ID: 61.A-9-9
Prop Location: 9 COLONIAL VILLAGE DR UNIT I9
Arlington, MA
Owner: MAC INNES PATRICIA
Co-Owner:
Mailing Address:
32 ST CATHERINE RD
NORWOOD, MA 02062



Places by Category

- Police Station
- Fire Station
- School
- Library
- Public Works
- Recreation - Facilities

Recreation - Fields Courts

Recreation - Fields Courts

Open Space: Conservation

Open Space - Minuteman

Open Space - Labels

Open Space

Town, State, or Private

Other Town Owned

MA Highways

Interstate

US Highway

Numbered Routes

Abutting Towns

Town Boundary

Parcels

Buildings

Cemetery - Roads

Road1

Road2

Road3

Road4

Pavement Markings

Impervious Surface - For B

Street

Sidewalk

Street Island

Driveway

Parking Lot

Bike Path

Roads - For Large Scale (f

Roads - For Small Scale (f

Local Road

Master Plan Base Map - M

Water Line

Water Body

Arlington Reservoir

Mill Brook

Hurd Field

Minuteman Bikeway

Minuteman Bikeway

Mill Brook

No Name Brook

Minuteman Bikeway

Lowell St

Nourse St

Reservoir Rd

Massachusetts Ave

The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.

0 200 400 ft

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219 of 299

**DRAINAGE CALCULATIONS AND
STORMWATER MANAGEMENT PLAN**

For:

**COLONIAL VILLAGE DRIVE
ASSESSORS PARCEL (061.A-1-1 THROUGH 061.A-12-12)
ARLINGTON, MASSACHUSETTS**

Located:

**COLONIAL VILLAGE DRIVE
ARLINGTON, MASSACHUSETTS**

Submitted to:

TOWN OF ARLINGTON

Prepared For:

**COLONIAL VILLAGE CONDOMINIUM TRUST
15 TREMONT STREET PH1
BOSTON, MASSACHUSETTS 02111**



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www.mckeng.com**

December 13, 2021

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▪ APPENDIX B: Checklist for Stormwater Report	
▪ APPENDIX C: Illicit Discharge Compliance Statement Supplemental BMP Calculations	
▪ APPENDIX D: Wetland Delineation Report Soil Testing Data	
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Drainage Calculations and Stormwater Management Plan Colonial Village Drive Arlington, Massachusetts

Project Summary

The project proponent, Colonial Village Condominium Trust, proposes full depth pavement reclamation at Colonial Village Drive in Arlington, Massachusetts. Subject parcel is shown on the Arlington Assessor's Maps as Parcel ID 061.A-1-1 through 061.A-12-12 and is comprised of 4.53 acres. The site is located entirely within the Residence 5 (R5) Zoning District.

The proposed project will consist of the reconstruction of all on-site bituminous concrete parking and access driveways, installation of stormwater management systems and site grading.

The proposed and existing site conditions are illustrated on the project *site plans* entitled "Parking Lot Reconstruction, (APN 061.A-1-1 through 061.A-12-12), Colonial Village Drive, Arlington, Massachusetts", prepared by McKenzie Engineering Group, Inc. dated December 13, 2021, latest revision.

Refer to Figure 1- USGS Locus Map for the location of the parcel.

Pre-Development Condition

The parcel is currently developed consisting of twelve 12-unit condominium buildings, bituminous concrete parking and access driveways, and landscaped areas. The site slopes slightly towards Mill Brook at the southern and western property lines. The topography of the site ranges in elevation from approximately 162 ft. (NAVD 88) at Lowell Street to an elevation of approximately 151 ft. along Mill Brook at the southern and western property lines. Runoff emanating from the site flows in a westerly and southerly direction to the perennial stream, Mill Brook. There are no stormwater treatment measures existing on the site. The landward limits of the Inland Bank on the site were delineated by Environmental Consulting and Restoration, LLC on July 12, 2021. Refer to Appendix D: - Wetland Delineation Report for supporting data.

The site is located within the Zone AE of the Flood Insurance Rate Map, as shown on the current FEMA Flood Insurance Rate Map Panel No. 25017C0416E with an effective date of June 4, 2010. Refer to Figure 2 – FEMA Flood Map.

The soil types as identified by the Soil Survey, Middlesex County, MA prepared by the NRCS Soil Conservation Service (NRCS) are classified as Hinckley Loamy Sand, 3-8% slopes (SCS 253B) which is classified as hydrologic soil group (HSG A), Urban Land (SCS 602) which has an unclassified HSG, and Merrimac-Urban Land Complex, 0-8% Slopes (SCS 626B) which is classified HSG A. Soil testing conducted by McKenzie Engineering Group, Inc. (MEG) on September 8, 2021 identified the soils to be sandy loam (HSG) C.

Refer to Figure 3 - Soil Map for the NRCS delineation of soil types and Appendix D – Soil Testing Results for supporting data.

Post-Development Condition

The objective in designing the proposed drainage facilities for the project was to maintain existing drainage patterns to the maximum extent practicable and to ensure that runoff from the site is treated before entering Mill Brook by utilizing deep sump hooded catch basins and proprietary pre-treatment units. There will be no change to existing impervious coverage as a result of the parking lot reconstruction. The project is a redevelopment per Standard 7 of the Massachusetts Stormwater Management Standards and is therefore subject to the Standards only to the maximum extent practicable. The proposed project will not obstruct the flow of water or increase flood heights within the flood plain.

Stormwater Best Management Practices (BMP's)

The treatment stream for the redevelopment shall consist of deep sump hooded catch basins and proprietary pre-treatment units to achieve an improvement to existing stormwater drainage conditions to the maximum extent practicable.

Erosion and Sedimentation Controls

Compost filter tube (Silt sock) erosion control barriers will be placed at the limit of work prior to the commencement of any construction activity. The integrity of the silt sock will be maintained by periodic inspection and replacement as necessary. The silt sock will remain in place until the first course of pavement has been placed and all side slopes have been loamed and seeded and vegetation has been established. Refer to the Erosion Control details on the Site Development Plans and BMP Operation and Maintenance Plan for proposed erosion control measures to be employed for the project.

Compliance with Stormwater Management Standards

Standard 1 – No New Untreated Discharges

The proposed development will not introduce any new untreated discharges to a wetland area or waters of the Commonwealth of Massachusetts. All discharges from the site will be treated through proposed stormwater quality controls such as deep sump hooded catch basins and pre-treatment structures including the establishment of proper maintenance procedures.

Standard 2 – Peak Rate Attenuation

The proposed redevelopment maintains existing peak rate attenuation and meets existing total impervious areas.

Standard 3 – Groundwater Recharge

The proposed redevelopment maintains existing groundwater recharge conditions to the maximum extent practicable. The proposed redevelopment does not result in an increase of total impervious areas. Soil testing conducted on-site found groundwater tables to be too high for subsurface infiltration systems to be installed.

Standard 4 – Water Quality

The proposed redevelopment improves water quality to the maximum extent practicable by providing proprietary first defense units throughout the parking area. Runoff from reclaimed parking area will be filtered through proprietary first defense units prior to discharging into Mill River.

Standard 5 – Land Use with Higher Potential Pollutant Loads (LUHPPL)

The proposed project does not include land uses with higher potential pollutant loads. Not Applicable.

Standard 6 – Critical Areas

The proposed project does not lie within a Critical Resource Area. Not applicable.

Standard 7 - Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

The proposed project is a redevelopment project and is therefore subject to the Stormwater Management Standards only to the maximum extent practicable.

Standard 8 – Construction Period Pollution Prevention and Erosion and Sedimentation Control

The project will require a NPDES Construction General Permit and the preparation of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP will be submitted prior to any proposed construction. A Construction Phase BMP Operation and Maintenance Plan is included in Appendix E.

Standard 9 – Operation and Maintenance Plan

The Long-Term Operation and Maintenance Plan is provided in Appendix E.

Standard 10 – Prohibition of Illicit Discharges

No illicit discharges are anticipated on site. An Illicit Discharge Compliance Statement will be submitted prior to the discharge of any stormwater to the post-construction best management practices. Measures to prevent illicit discharges will be included in the Long-Term Pollution Prevention Plan.

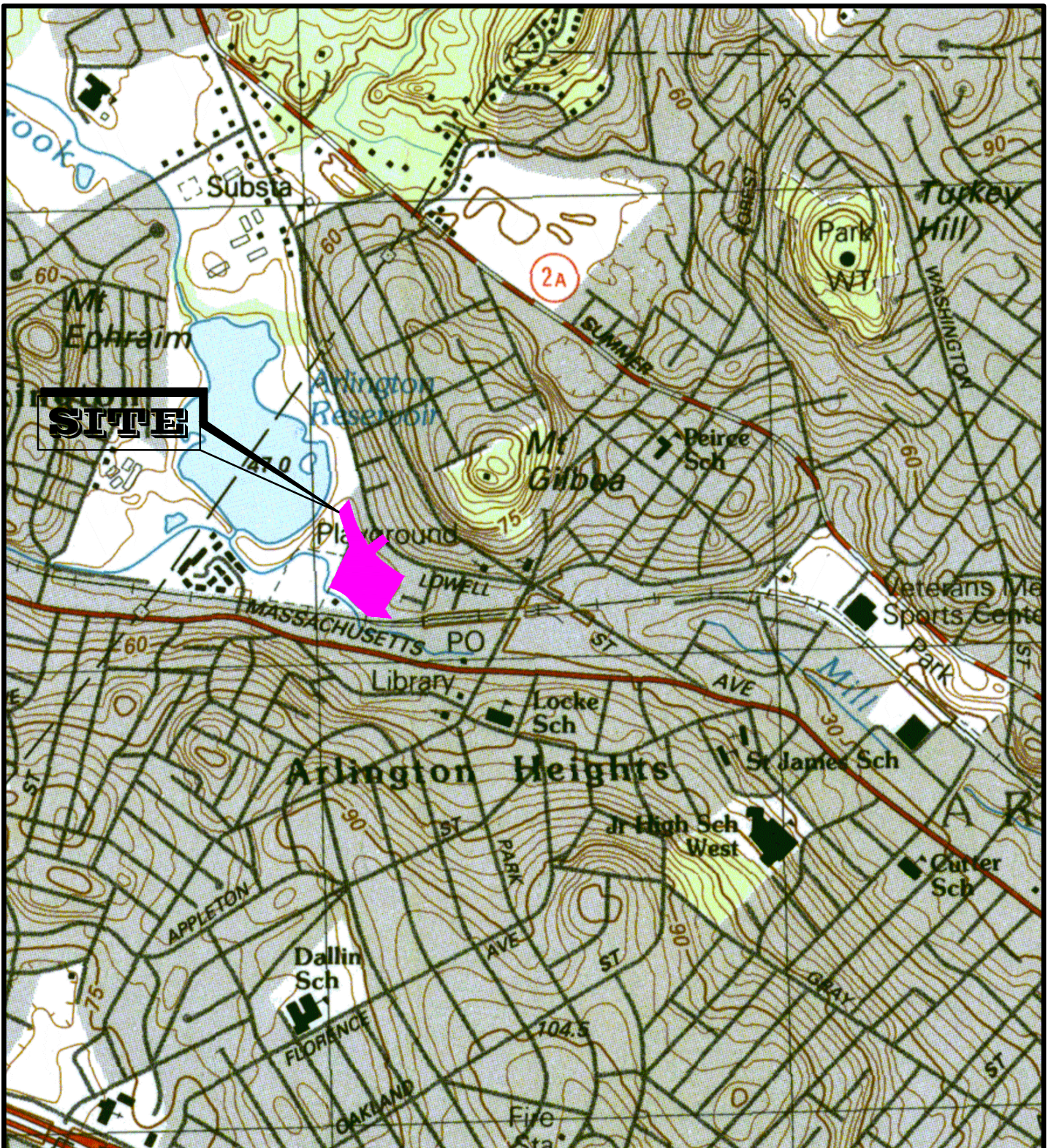
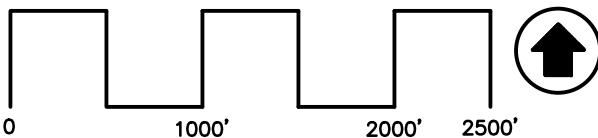


FIGURE - 1



U.S. GEOLOGICAL SURVEY
7.5 X 15 MINUTE SERIES

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USGS LOCUS MAP

COLONIAL VILLAGE DRIVE
(APN: 061.A-1-1 THROUGH 061.A12-12)
ARLINGTON, MASSACHUSETTS

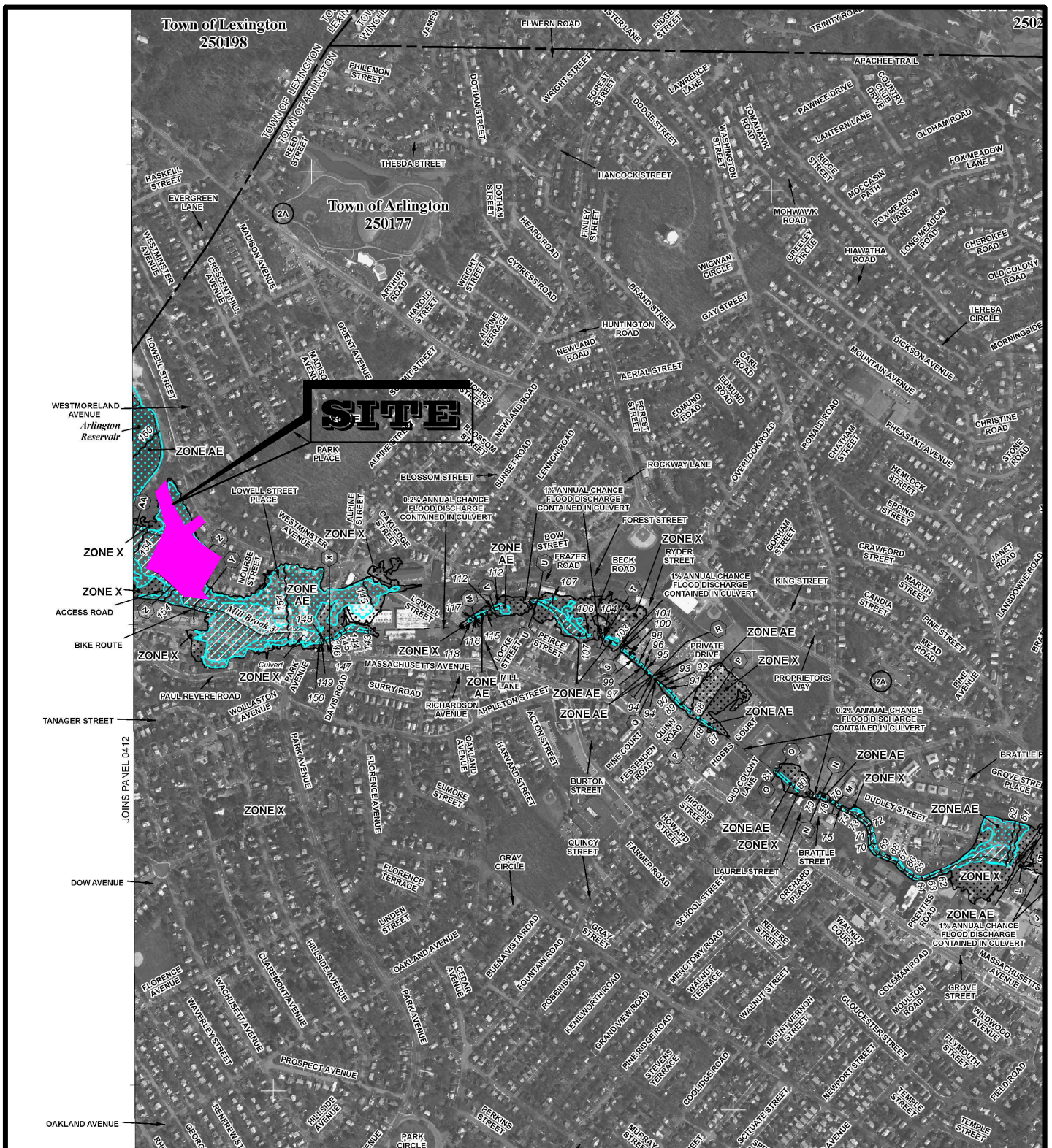
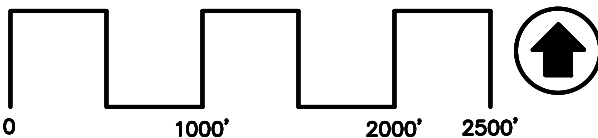


FIGURE - 2



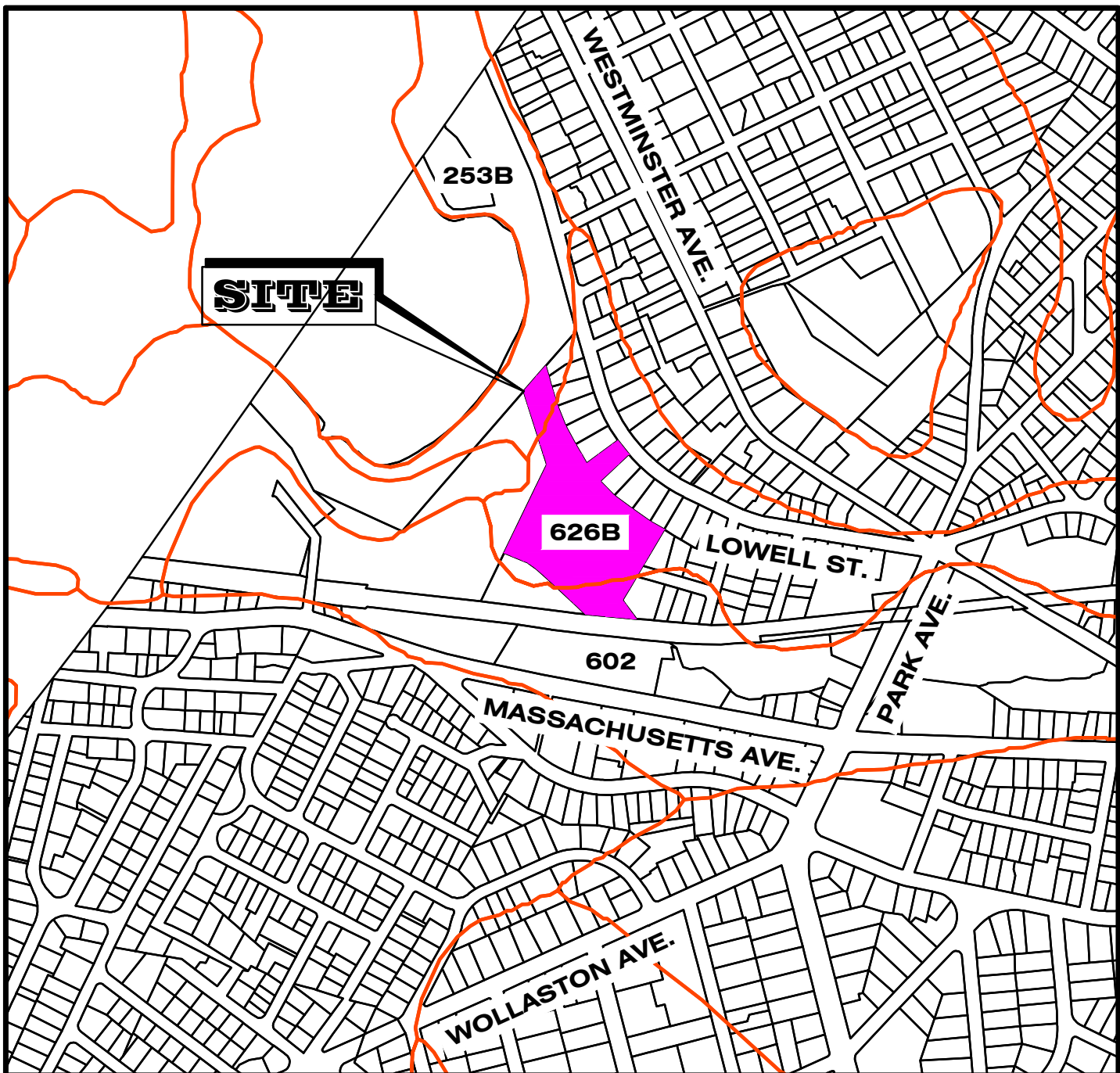
COMMUNITY PANEL NO: 25017C0416E
EFFECTIVE DATE: JUNE 4, 2010



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Norwell, MA 02061
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FEMA FLOOD MAP

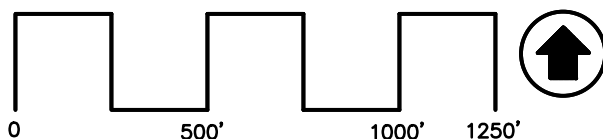
COLONIAL VILLAGE DRIVE
(APN: 061.A-1-1 THROUGH 061.A12-12)
ARLINGTON, MASSACHUSETTS



SOIL KEY

SOIL CLASSIFICATION	DESCRIPTION	HYDROLOGIC SOIL GROUP
253B	HINCKLEY LOAMY SAND, 3-8% SLOPES	A
602	URBAN LAND	UNCLASSIFIED
626B	MERRIMAC-URBAN LAND COMPLEX, 0-8% SLOPES	A

FIGURE - 3



NRCS SOIL SURVEY
MIDDLESEX COUNTY



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NRCS SOILS MAP

COLONIAL VILLAGE DRIVE
(APN: 061.A-1-1 THROUGH 061.A12-12)
ARLINGTON, MASSACHUSETTS

A P P E N D I X A

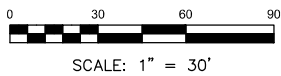
Post-Development Condition

LEGEND

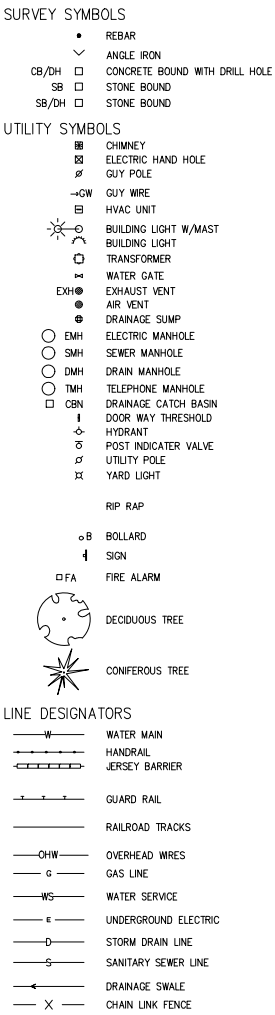


SOIL KEY

SOIL CLASSIFICATION	DESCRIPTION	HYDROLOGIC SOIL GROUP
253B	HINKLEY LOAMY SAND, 3-8% SLOPES	A
602	URBAN LAND	UNCLASSIFIED
626B	MERRIMAC-URBAN LAND COMPLEX, 0-8% SLOPES	A



LEGEND



ABBREVIATIONS
FTE FIRST FLOOR ELEVATION
BIT CONC. BITUMINOUS CONCRETE PAVEMENT
EP CAPE COD BERM
BC BITUMINOUS CONCRETE CURB
(AM) AS MEASURED
RET WALL RETAINING WALL
CONC. CONCRETE
RCP REINFORCED CONCRETE PIPE
VCC VERTICAL GRANITE CURB
ETW EDGE OF TRAVEL WAY
MTL METAL BERM
VCC VERTICAL CONCRETE CURB
CMP CORRUGATED METAL PIPE

PARKING LOT RECONSTRUCTION
COLONIAL VILLAGE DRIVE
(APN 061.A-1-1 THROUGH 061.A-12-12)
ARLINGTON, MASSACHUSETTS

PROFESSIONAL ENGINEER:

APPLICANT:
Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, MA 02111

DRAWN BY: RPL
DESIGNED BY: AJC
CHECKED BY: BCM
APPROVED BY: BCM
DATE: 12/13/2021
SCALE: 1"=30'
PROJECT NO.: 221-155
DWG. TITLE:

POST-DEV
WATERSHED
PLAN

DWG. NO:

WS-2

A P P E N D I X B

Checklist for Stormwater Report



Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the [Massachusetts Stormwater Handbook](#). The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

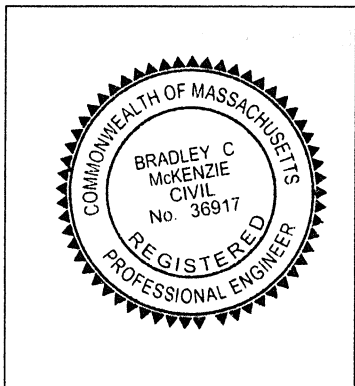
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

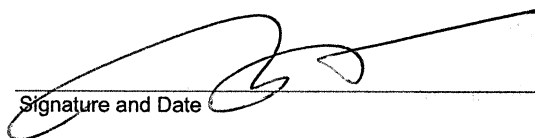
Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



Signature and Date

 12-13-21

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

☐ New development

☒ Redevelopment

☐ Mix of New Development and Redevelopment



Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- ☒ No disturbance to any Wetland Resource Areas
- ☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☒ Reduced Impervious Area (Redevelopment Only)
- ☒ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
 - ☐ Credit 1
 - ☐ Credit 2
 - ☐ Credit 3
- ☐ Use of "country drainage" versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☐ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☐ Grass Channel
- ☐ Green Roof
- ☐ Other (describe): _____

Standard 1: No New Untreated Discharges

- ☒ No new untreated discharges
- ☒ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☐ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

- ☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- ☐ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- ☐ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

- ☒ Soil Analysis provided.
- ☐ Required Recharge Volume calculation provided.
- ☐ Required Recharge volume reduced through use of the LID site Design Credits.
- ☒ Sizing the infiltration, BMPs is based on the following method: Check the method used.
 - ☒ Static
 - ☐ Simple Dynamic
 - ☐ Dynamic Field¹
- ☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.
- ☐ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- ☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- ☒ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - ☐ Site is comprised solely of C and D soils and/or bedrock at the land surface
 - ☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - ☐ Solid Waste Landfill pursuant to 310 CMR 19.000
 - ☒ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- ☐ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- ☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

- ☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- ☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
 - Provisions for storing materials and waste products inside or under cover;
 - Vehicle washing controls;
 - Requirements for routine inspections and maintenance of stormwater BMPs;
 - Spill prevention and response plans;
 - Provisions for maintenance of lawns, gardens, and other landscaped areas;
 - Requirements for storage and use of fertilizers, herbicides, and pesticides;
 - Pet waste management provisions;
 - Provisions for operation and management of septic systems;
 - Provisions for solid waste management;
 - Snow disposal and plowing plans relative to Wetland Resource Areas;
 - Winter Road Salt and/or Sand Use and Storage restrictions;
 - Street sweeping schedules;
 - Provisions for prevention of illicit discharges to the stormwater management system;
 - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
 - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
 - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- ☒ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
- ☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
- ☐ is within the Zone II or Interim Wellhead Protection Area
 - ☐ is near or to other critical areas
 - ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - ☐ involves runoff from land uses with higher potential pollutant loads.
- ☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.
- ☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

- ☐ The BMP is sized (and calculations provided) based on:
 - ☐ The ½" or 1" Water Quality Volume or
 - ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- ☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- ☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- ☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- ☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- ☐ The NPDES Multi-Sector General Permit does **not** cover the land use.
- ☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- ☐ All exposure has been eliminated.
- ☐ All exposure has **not** been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- ☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

- ☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- ☐ Critical areas and BMPs are identified in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- ☒ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
 - ☐ Limited Project
 - ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
 - ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
 - ☐ Bike Path and/or Foot Path
- ☒ Redevelopment Project
- ☐ Redevelopment portion of mix of new and redevelopment.
- ☐ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- ☒ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
 - Construction Period Operation and Maintenance Plan;
 - Names of Persons or Entity Responsible for Plan Compliance;
 - Construction Period Pollution Prevention Measures;
 - Erosion and Sedimentation Control Plan Drawings;
 - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
 - Vegetation Planning;
 - Site Development Plan;
 - Construction Sequencing Plan;
 - Sequencing of Erosion and Sedimentation Controls;
 - Operation and Maintenance of Erosion and Sedimentation Controls;
 - Inspection Schedule;
 - Maintenance Schedule;
 - Inspection and Maintenance Log Form.
- ☒ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

- ☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- ☐ The project is **not** covered by a NPDES Construction General Permit.
- ☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- ☒ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

- ☒ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - ☒ Name of the stormwater management system owners;
 - ☒ Party responsible for operation and maintenance;
 - ☒ Schedule for implementation of routine and non-routine maintenance tasks;
 - ☐ Plan showing the location of all stormwater BMPs maintenance access areas;
 - ☐ Description and delineation of public safety features;
 - ☐ Estimated operation and maintenance budget; and
 - ☒ Operation and Maintenance Log Form.
- ☐ The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
 - ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges


- ☒ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- ☒ An Illicit Discharge Compliance Statement is attached;
- ☐ NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.

A P P E N D I X C

Illicit Discharge Compliance Statement Supplemental BMP Calculations

Illicit Discharge Compliance Statement

I, Bradley C. McKenzie, P.E., hereby notify the Arlington Conservation Commission that I have not witnessed, nor am aware of any existing illicit discharges at the site known as APN 061.A-1-1 through 061.A-12-12 in Arlington, Massachusetts. I also hereby certify that the development of said property as illustrated on the final plans entitled "Parking Lot Reconstruction, Colonial Village Drive, (APN 061.A-1-1 through 061.A-12-12), Arlington, Massachusetts," prepared by McKenzie Engineering Group, Inc. dated December 13, 2021 and as revised and approved by the Arlington Conservation Commission and maintenance thereof in accordance with the "Construction Phase Operations and Maintenance Plan" and "Long-Term Operations and Maintenance Plan" prepared by McKenzie Engineering Group, Inc. dated December 13, 2021 and as revised and approved by the Arlington Conservation Commission will not create any new illicit discharges. There is no warranty implied regarding future illicit discharges that may occur as a result of improper construction or maintenance of the stormwater management system or unforeseen accidents.

Name: Bradley C. McKenzie, P.E.
Company: McKenzie Engineering Group, Inc.
Title: President
Signature: 
Date: 12.13.21



Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061

Storm Drainage Computations

Name: Colonial Village Drive, Arlington, MA
APN 061.A-1-1 through 061.A-12-12
Client: Colonial Village Condominium Trust

Proj. No.: **221-155**
Date: **13-Dec-21**
Computed by: **RPL**

Design Parameters:

100 Year Storm

Boston, MA

NOTE:

Checked by: **BCM** $k_e =$ **0.5**

FD=First Defense Unit

[illegible]

Weighted Runoff Coefficients

Name: Colonial Village Drive, Arlington, MA Proj. No.: 221-155
APN 061.A-1-1 through 061.A-12-12 Date: 13-Dec-21
Client: Colonial Village Condominium Trust Computed by: RPL
Checked by: BCM

FD-1

Description of Area	Area (acres)	Runoff Coefficient	A x C
Pervious	0.000	0.30	0.00
Impervious	0.157	0.90	0.14
Totals =	0.157		0.14

Weighted Runoff Coefficient : $\Sigma(A \times C) / \Sigma A =$ 0.90

FD-3

Description of Area	Area (acres)	Runoff Coefficient	A x C
Pervious	0.000	0.30	0.00
Impervious	0.120	0.90	0.11
Totals =	0.120		0.11

Weighted Runoff Coefficient : $\Sigma(A \times C) / \Sigma A =$ 0.90

FD-5

Description of Area	Area (acres)	Runoff Coefficient	A x C
Pervious	0.000	0.30	0.00
Impervious	0.161	0.90	0.14
Totals =	0.161		0.14

Weighted Runoff Coefficient : $\Sigma(A \times C) / \Sigma A =$ 0.90

A P P E N D I X D

Wetland Delineation Report Soil Testing Data



Environmental Consulting & Restoration, LLC



WETLAND DELINEATION MEMO

TO: McKenzie Engineering Group

FROM: Brad Holmes

DATE: July 30, 2021

RE: Colonial Village, Arlington

Per your request, Environmental Consulting & Restoration, LLC (ECR) performed a review of the existing conditions at the Colonial Village condominium complex located at Colonial Village Drive in Arlington (the Site) on July 12, 2021. The purpose of the review was to identify wetland resource areas on and near the site. The site consists of multiple condominium/apartment buildings with associated paved driveways, parking areas, landscaped areas, etc. The weather on July 12th was overcast, warm (approximately 65 degrees), and damp from occasional showers. Wetland resource areas are located on the near western and southern portion of the site associated with a U.S.G.S. mapped perennial stream that flows within a concrete walled stream system. The perennial stream flows from the Arlington Reservoir and is channelized by concrete walls on either side. The concrete walls function as Inland Banks to the stream. There are no vegetated wetlands associated with this stream. For reference, ECR hung Inland Bank flags #IB1 to #IB17 at the top of the Inland Bank/concrete wall of this stream facing the site. As a result of ECR's site, ECR is able to confirm that the site contains the following wetland resource areas and areas of Conservation Commission jurisdiction:

- Inland Bank of a perennial stream
- 100-foot Buffer Zone to Inland Bank
- 200-foot Riverfront Area
- Bordering Land Subject to Flooding (FEMA AE Zone)

Also review of the MassGIS wetlands database reveals the following:

1. The site is not located within Estimated/Priority Habitat for Rare Species according to the Massachusetts Natural Heritage & Endangered Species Program (MaNHESP).
2. The site does not contain Certified Vernal Pools according to the MaNHESP.
3. The site is not located within an Area of Critical Environmental Concern.

Upon review of this wetland delineation memo, please contact me at (617) 529 – 3792 or brad@ecrwetlands.com with any questions or requests for additional information.

Thank you,
Brad Holmes, Professional Wetland Scientist #1464
Manager



Commonwealth of Massachusetts
City/Town of

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

A. Facility Information

Colonial Village Apt.

Owner Name

1-12 Colonial Village Drive

Street Address

Arlington

City

MA
State

Parcel ID 061.A-0010-0005.0

Map/Lot #

02474

Zip Code

B. Site Information

1. (Check one) ☐ New Construction ☐ Upgrade ☒ Repair
2. Soil Survey Available? ☒ Yes ☐ No If yes: NRCS 626B
Source Soil Map Unit
- Merrimac Urban Land complex
Soil Name
- Loamy glaciofluvial deposits
Soil Parent material
- None
Soil Limitations
- Eskers, Outwash plain/terrace
Landform
3. Surficial Geological Report Available? ☒ Yes ☐ No If yes: 2021 MassGIS Outwash
Year Published/Source Map Unit
- Outwash plain near Arlington Reservoir
Description of Geologic Map Unit:
4. Flood Rate Insurance Map Within a regulatory floodway? ☒ Yes ☐ No
5. Within a velocity zone? ☐ Yes ☒ No
6. Within a Mapped Wetland Area? ☐ Yes ☒ No If yes, MassGIS Wetland Data Layer: Wetland Type
7. Current Water Resource Conditions (USGS): 8/19/21 Range: ☒ Above Normal ☐ Normal ☐ Below Normal
Month/Day/ Year
8. Other references reviewed: MassGIS, Lexington Well 104



Commonwealth of Massachusetts
City/Town of

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

Deep Observation Hole Number: 1 9/8/21 9:00AM 75 Sunny 42.426° -71.186°
 Hole # Date Time Weather Latitude Longitude:

1. Land Use: Residential Parking Lot Some stones 1-3%
 (e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)

Description of Location: Parking Lot - South east site

2. Soil Parent Material: Outwash Outwash plain FS
 Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body >100' feet Drainage Way >100' feet Wetlands 95' feet
 Property Line 20' feet Drinking Water Well n/a feet Other X feet

4. Unsuitable
 Materials Present: ☒ Yes ☐ No If Yes: ☐ Disturbed Soil ☒ Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☒ Yes ☐ No If yes: 60" Depth Weeping from Pit 60" Depth Standing Water in Hole

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-4"	Fill	--	--	-	-	-	----	--	--	--	Parking Lot
4-39"	Fill	--	--	-	-	-	----	--	--	--	Imported Sand
39-45"	Buried A	SL	10YR 2/2	-	-	-	2	2	Gran	Fri	Organic Layer
45-95"	C	GLS	10YR 5/3	45"	2.5YR5/6	2	10	20	Mass	Fri	Stoney LS

Additional Notes: Overall good material - wet substratum, remove buried A



Commonwealth of Massachusetts
City/Town of

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

Deep Observation Hole Number: 2 Hole # 9/8/21 Date 9:30AM Time 75 Sunny Weather 42.426° Latitude -71.186° Longitude:

1. Land Use: Residential (e.g., woodland, agricultural field, vacant lot, etc.) Parking Lot Vegetation Some stones Surface Stones (e.g., cobbles, stones, boulders, etc.) 1-3% Slope (%)

Description of Location: Parking Lot - South site near Brook

2. Soil Parent Material: Outwash Landform Outwash plain Landform FS Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body >100' feet Drainage Way 30' feet Wetlands 30' feet
Property Line 20' feet Drinking Water Well n/a feet Other X feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☐ Disturbed Soil ☒ Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☒ Yes ☐ No If yes: 64" Depth Weeping from Pit 68" Depth Standing Water in Hole

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-4"	Fill	--	--	-	-	-	----	--	--	--	Parking Lot
4-39"	Fill	--	--	-	-	-	----	--	--	--	Imported Sand/loose
39-45"	Buried A	SL	10YR 2/2	-	-	-	2	2	Gran	Fri	Organic Layer
45-100"	C	LS	10YR 6/2	45"	2.5YR5/6	2	5	20	Mass	Fri	less gravel/ depleted soils

Additional Notes: Overall good material - 4'- C, remove buried A, dryer soil than #1



Commonwealth of Massachusetts
City/Town of

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

Deep Observation Hole Number: 3 Hole # 9/8/21 Date 10:30AM Time 75 Sunny Weather 42.426° Latitude -71.186° Longitude:

1. Land Use: Residential (e.g., woodland, agricultural field, vacant lot, etc.) Parking Lot Vegetation Some stones Surface Stones (e.g., cobbles, stones, boulders, etc.) 1-3% Slope (%)

Description of Location: Parking Lot - South site near bridge

2. Soil Parent Material: Outwash Landform Outwash plain Position on Landscape (SU, SH, BS, FS, TS) FS

3. Distances from: Open Water Body >100' feet Drainage Way 16' feet Wetlands 16' feet
Property Line 25' feet Drinking Water Well n/a feet Other X feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☐ Disturbed Soil ☒ Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☒ Yes ☐ No If yes: 38" Depth Weeping from Pit 44" Depth Standing Water in Hole

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-4"	Fill	--	--	-	-	-	----	--	--	--	Parking Lot
4-22"	Fill	--	10YR4/3	-	-	-	10	20	Mass	Fri	road subgrade/loamy
22-78"	Cd	LS/SL	10YR 5/3	28"	2.5YR5/6	25	10	25	Mass	Fri	Denser Till

Additional Notes: High GW, denser subsurface, likely no room for system



Commonwealth of Massachusetts
City/Town of

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review *(minimum of two holes required at every proposed primary and reserve disposal area)*

Deep Observation Hole Number: 4 Hole # 9/8/21 Date 11:15AM Time 75 Sunny Weather 42.426° Latitude -71.186° Longitude:

1. Land Use: Residential (e.g., woodland, agricultural field, vacant lot, etc.) Parking Lot Vegetation Some stones Surface Stones (e.g., cobbles, stones, boulders, etc.) 1-3% Slope (%)

Description of Location: Parking Lot - South site near Brook

2. Soil Parent Material: Outwash Landform Outwash plain Landform FS Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body >100' feet Drainage Way 18' feet Wetlands 18' feet
Property Line 30' feet Drinking Water Well n/a feet Other X feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☐ Disturbed Soil ☒ Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☒ Yes ☐ No If yes: 36" Depth Weeping from Pit 43" Depth Standing Water in Hole

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-4"	Fill	--	--	-	-	-	----	--	--	--	Parking Lot
4-24"	Fill	--	--	-	-	-	----	--	--	--	Imported fill/loam
24-36"	Bw	GLS	10YR 4/3	25"	2.5YR5/6	10	10	10	Mass	Fri	Denser Bw
36-86"	C	GLS	10YR 5/3	-	-	-	20	10	Mass	Fri/Loose	sandy/gravelly

Additional Notes: High GW - Better material than 3, no room for system, potential fill throughout



Commonwealth of Massachusetts
City/Town of

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review *(minimum of two holes required at every proposed primary and reserve disposal area)*

Deep Observation Hole Number: 5 Hole # 9/8/21 Date 12:00 PM Time 75 Sunny Weather 42.426° Latitude -71.186° Longitude:

1. Land Use: Residential (e.g., woodland, agricultural field, vacant lot, etc.) Parking Lot Vegetation Some stones Surface Stones (e.g., cobbles, stones, boulders, etc.) 1-3% Slope (%)

Description of Location: Parking Lot - North site near entrance

2. Soil Parent Material: Outwash Landform Outwash plain Landform FS Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body >100' feet Drainage Way >100' feet Wetlands >100' feet
Property Line 10' feet Drinking Water Well n/a feet Other X feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☐ Disturbed Soil ☒ Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☒ Yes ☐ No If yes: 48" Depth Weeping from Pit 62" Depth Standing Water in Hole

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-26"	Fill/A	--	10YR3/2	-	-	-	----	--	--	--	Landscaping
26-40"	Bw	--	10YR4/3	-	-	-	10	5	Mass	Fri	-
40-100"	C	GLS	10YR 5/3	40"	2.5YR5/6	25	15	10	Mass	Fri/loose	Gravelly

Additional Notes: Suitable material for SW, Gravelly C - LS



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

D. Determination of High Groundwater Elevation

1. Method Used: Obs. Hole # All Obs. Hole # _____
- ☐ Depth observed standing water in observation hole _____ inches _____ inches
- ☐ Depth weeping from side of observation hole _____ inches _____ inches
- ☒ Depth to soil redoximorphic features (mottles) Depth to redox. varies inches _____ inches
- ☐ Depth to adjusted seasonal high groundwater (S_h) (USGS methodology) _____ inches _____ inches

Index Well Number _____

Reading Date _____

$$S_h = S_c - [S_r \times (OW_c - OW_{max}) / OW_r]$$

Obs. Hole/Well# _____ S_c _____ S_r _____ OW_c _____ OW_{max} _____ OW_r _____ S_h _____

2. Estimated Depth to High Groundwater: See inches
logs

E. Depth of Pervious Material

1. Depth of Naturally Occurring Pervious Material

a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?

☒ Yes ☐ No

Fill for pavement

b. If yes, at what depth was it observed (exclude A and O Horizons)?

Upper boundary: _____ Lower boundary: 4' for all pits
inches inches

c. If no, at what depth was impervious material observed?

Upper boundary: _____ Lower boundary: _____
inches inches



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

Austin Chartier, PE

Signature of Soil Evaluator

Austin Chartier, PE SE#14167

Typed or Printed Name of Soil Evaluator / License #

None

Name of Approving Authority Witness

9/8/2021

Date

6/30/2023

Expiration Date of License

N/A

Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with [Percolation Test Form 12](#).

Field Diagrams: Use this area for field diagrams:

A P P E N D I X E

Best Management Practices Operation and Maintenance Plans

**CONSTRUCTION PHASE POLLUTION
PREVENTION AND EROSION AND
SEDIMENTATION CONTROL PLAN
(BEST MANAGEMENT PRACTICES
OPERATION AND MAINTENANCE PLAN)**

for

Colonial Village Drive

In

**Arlington, Massachusetts
(APN 061.A-1-1 through 061.A-12-12)**

Submitted to:

TOWN OF ARLINGTON

Prepared for:

**Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, Massachusetts 02111**

Prepared by:



**Professional Civil Engineering • Project Management • Land Planning
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December 13, 2021

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Construction Phase Best Management Practices (BMP's)

Erosion and Sedimentation will be controlled at the site by utilizing Structural Practices, Stabilization Practices, and Dust Control. These practices correspond with plans entitled "Parking Lot Reconstruction, Colonial Village Drive, (APN 061.A-1-1 through 061.A-12-12), Arlington, Massachusetts", issued December 13, 2021 and as revised hereinafter referred to as the Site Plans.

Responsible Party Contact Information:

Stormwater Management System Owner: Colonial Village Condominium Trust
Alan Foley, Senior Construction Project Manager
First Realty Management Corporation, AMO
15 Tremont Street PH1
Boston, MA 02111
Phone: (617) 423-7000

Town of Arlington Contact Information:

Arlington Department of Public Works
51 Grove Street
Arlington, MA 02476
Phone: 781-316-3301

Arlington Conservation Commission
730 Massachusetts Avenue
Arlington, MA 02476
Phone: 781-316-3090

Arlington Inspectional Services
23 Maple Street
Arlington, MA 02476
Phone: 781-316-3390

Structural Practices:

- 1) **Compost Filter Tube Barrier Controls** – A compost filter tube barrier will be constructed along downward slopes at the limit of work in locations shown on the plans. This control will be installed prior to major soil disturbance on the site. The sediment silt sack barrier should be installed as shown on the Construction Detail Plan.

Compost Filter Tube Design/Installation Requirements *

- a) Locate the compost filter tube where identified on the plans.
- b) The compost filter tube line should be nearly level through most of its length to impound a broad, temporary pool. The last 10 to 20 feet at each end of the silt sack should be swung slightly uphill (approximately 0.5 feet in elevation) to provide storage capacity.

- c) The compost filter tube shall be staked every 8 linear feet with 1-inch by 1-inch stakes.
- d) Compost filter tubes should be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized through one growing season. Retained sediment must be removed and properly disposed of, or mulched and seeded.

Compost Filter Tube Inspection/Maintenance *

- a) Compost filter tubes should be inspected immediately after each rainfall event of 1-inch or greater, and at least daily during prolonged rainfall. Inspect the depth of sediment, fabric tears, and to see that the fence posts are firmly in the ground. Repair or replace as necessary.
 - b) Remove sediment deposits promptly after storm events to provide adequate storage volume for the next rain and to reduce pressure on the fence. Sediment will be removed from behind the sediment fence when it becomes about ½ foot deep at the compost filter tube. Take care to avoid undermining fence during cleanout.
 - c) If the fabric tears, decomposes, or in any way becomes ineffective, replace it immediately.
 - d) Remove all compost filter tube materials after the contributing drainage area has been properly stabilized. Sediment deposits remaining after the fabric has been removed should be graded to conform with the existing topography and vegetated.
- 2) **Sediment Fence Controls** – A sediment fence will be constructed along the limit of work as needed to prevent the spreading of fine sediments from the site. This control will be installed prior to major soil disturbance on the site. The sediment fence should be installed as shown on the Erosion Control Detail Plan and be Amoco woven polypropylene 1198 or equivalent.

Sediment Fence Design/Installation Requirements *

- e) Locate the fence upland of the hay bale barriers and where identified on the plans.
- f) The fence line should be nearly level through most of its length to impound a broad, temporary pool. The last 10 to 20 feet at each end of the fence should be swung slightly uphill (approximately 0.5 feet in elevation) to provide storage capacity.
- g) Excavate a trench approximately 8 inches deep and 4 inches wide, or a V-trench; along the line of the fence, upslope side.
- h) Fasten support wire fence (14 gauge with 6-inch mesh) securely to the upslope side of the fence posts with wire ties or staples. Wire should extend 6 inches into the trench.

- i) Attach continuous length of fabric to upslope side of fence posts. Avoid joints, particularly at low points in the fence line. Where joints are necessary, fasten fabric securely to support posts and overlap to the next post.
- j) Place the bottom one foot of fabric in the trench. Backfill with compacted earth or gravel.
- k) Filter cloth shall be fastened securely to the woven wire fence with ties spaced every 24 inches at the top, mid-section, and bottom.
- l) Sediment fences should be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized through one growing season and only following approval by the Engineering Department or their representative. Retained sediment must be removed and properly disposed of, or mulched and seeded.

Sediment Fence Inspection/Maintenance *

- e) Silt fences should be inspected immediately after each rainfall event of 1-inch or greater, and at least daily during prolonged rainfall. Inspect the depth of sediment, fabric tears, if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground. Repair or replace as necessary.
 - f) Remove sediment deposits promptly after storm events to provide adequate storage volume for the next rain and to reduce pressure on the fence. Sediment will be removed from behind the sediment fence when it becomes about ½ foot deep at the fence. Take care to avoid undermining fence during cleanout.
 - g) If the fabric tears, decomposes, or in any way becomes ineffective, replace it immediately.
 - h) Remove all fencing materials after the contributing drainage area has been properly stabilized. Sediment deposits remaining after the fabric has been removed should be graded to conform to the existing topography and vegetation.
- 3) **Stabilized Construction Entrance** – A stabilized construction entrance will be placed at the proposed entrance at Lowell Street. The construction entrance will keep mud and sediment from being tracked off the construction site onto Lowell Street by vehicles leaving the site. The stabilized construction entrance will be installed immediately after the clear and grubbing of the roadway entrance and associated roadway fill to maintain access to the site are completed. The stormwater runoff from the entrance will be diverted to a temporary sedimentation basin. The stabilized construction entrance shall be constructed as shown on the Construction Detail Plans.

Construction Entrance Design/Construction Requirements *

- a) Grade foundation for positive drainage towards the temporary sedimentation basin.
- b) Stone for a stabilized construction entrance shall consist of 1 to 3-inch stone placed on a stable foundation.
- c) Pad dimensions: The minimum length of the gravel pad should be 50 feet. The pad should extend the full width of the proposed roadway, or wide enough so that the largest construction vehicle will fit in the entrance with room to spare; whichever is greater.
- d) A geotextile filter fabric shall be placed between the stone fill and the earth surface below the pad to reduce the migration of soil particles from the underlying soil into the stone and vice versa. The filter fabric should be Amoco woven polypropylene 1198 or equivalent.
- e) Washing: If the site conditions are such that the majority of mud is not removed from the vehicle tires by the gravel pad, then the tires should be washed before the vehicle enters the street. The wash area shall be located at the stabilized construction entrance.
- f) Water employed in the washing process shall be directed to the temporary sedimentation basin/dewatering area as shown on the plans prior to discharge. Sediment should be prevented from entering any watercourses.

Construction Entrance Inspection/Maintenance *

- a) The entrance should be maintained in a condition that will prevent tracking or flowing of sediment onto Lowell Street. This may require periodic topdressing with additional stone
- b) The construction entrance and sediment disposal area shall be inspected weekly and after heavy rains or heavy use.
- c) Mud and sediment tracked or washed onto public road shall be immediately removed by sweeping.
- d) Once mud and soil particles clog the voids in the gravel and the effectiveness of the gravel pad is no longer satisfactory, the pad must be topdressed with new stone. Replacement of the entire pad may be necessary when the pad becomes completely clogged.
- e) If washing facilities are used, the temporary sedimentation basin/dewatering area should be cleaned out as often as necessary to assure that adequate trapping efficiency and storage volume is available. Any water pumped from the temporary sedimentation basin shall be directed into a sediment dirt bag or equivalent inlet protection prior to discharge. Discharge should not be across the disturbed construction site but rather to undisturbed areas.
- f) The pad shall be reshaped as needed for drainage and runoff control.

- g) Broken road pavement on Lowell Street shall be repaired immediately.
- h) All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization is achieved or after the temporary practices are no longer needed and only following approval by the Public Works Department or their representative. Trapped sediment shall be removed or stabilized on site. Disturbed soil areas resulting from removal shall be permanently stabilized.

Stabilization Practices:

Stabilization measures shall be implemented as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased, with the following exceptions.

- Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
 - Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (e.g. the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of the site by the 14th day after construction activity temporarily ceased.
 - The contractor shall provide erosion control measures around all soil stockpiles.
- 1) **Temporary Seeding** – Temporary seeding will allow a short-term vegetative cover on disturbed site areas that may be in danger of erosion. Temporary seeding will be done at stock piles and disturbed portions of the site where construction activity will temporarily cease for at least 21 days. The temporary seedings will stabilize cleared and unvegetated areas that will not be brought into final grade for several weeks or months.

Temporary Seeding Planting Procedures *

- a) Planting should preferably be done between April 1st and June 30th, and September 1st through September 31st. If planting is done in the months of July and August, irrigation may be required. If planting is done between October 1st and March 31st, mulching should be applied immediately after planting. If seeding is done during the summer months, irrigation of some sort will probably be necessary.
- b) Before seeding, install structural practice controls. Utilize Amoco supergro or equivalent.
- c) Select the appropriate seed species for temporary cover from the following table.

Species	Seeding Rate (lbs/1,000 sq.ft.)	Seeding Rate (lbs/acre)	Recommended Seeding Dates	Seed Cover required
Annual Ryegrass	1	40	April 1 st to June 1 st August 15 th to Sept. 15 th	¼ inch
Foxtail Millet	0.7	30	May 1 st to June 30 th	½ to ¾ inch
Oats	2	80	April 1 st to July 1 st August 15 th to Sept. 15 th	1 to 1-½ inch
Winter Rye	3	120	August 15 th to Oct. 15 th	1 to 1-½ inch

Apply the seed uniformly by hydroseeding, broadcasting, or by hand.

- d) Use effective mulch tacked and/or tied with netting to protect seedbed and encourage plant growth.

Temporary Seeding Inspection/Maintenance *

- a) Inspect within 6 weeks of planting to see if stands are adequate. Check for damage within 24 hours of the end to a heavy rainfall, defined as a 2-year storm event (i.e., 3.2 inches of rainfall within a twenty-four hour period). Stands should be uniform and dense. Reseed and mulch damaged and sparse areas immediately. Tack or tie down mulch as necessary.
- b) Seeds should be supplied with adequate moisture. Furnish water as needed, especially in abnormally hot or dry weather. Water application rates should be controlled to prevent runoff.
- 2) **Geotextiles** - Geotextiles such as jute netting will be used in combination with other practices such as mulching to stabilize slopes. The following geotextile materials or equivalent are to be utilized for structural and nonstructural controls as shown in the following table.

Practice	Manufacturer	Product	Remarks
Sediment Fence	Amoco	Woven polypropylene 1198 or equivalent	0.425 mm opening
Construction Entrance	Amoco	Woven polypropylene 2002 or equivalent	0.300 mm opening
Outlet Protection	Amoco	Nonwoven polypropylene 4551 or equivalent	0.150 mm opening
Erosion Control (slope stability)	Amoco	Supergro or equivalent	Erosion control revegetation mix, open polypropylene fiber on degradable polypropylene net scrim

Amoco may be reached at (800) 445-7732

Geotextile Installation

- a) Netting and matting require firm, continuous contact between the materials and the soil. If there is no contact, the material will not hold the soil and erosion will occur underneath the material.

Geotextile Inspection/Maintenance *

- a) In the field, regular inspections should be made to check for cracks, tears, or breaches in the fabric. The appropriate repairs should be made.
- 3) **Mulching and Netting** – Mulching will provide immediate protection to exposed soils during the period of short construction delays, or over winter months through the application of plant residues, or other suitable materials, to exposed soil areas. In areas, which have been seeded either for temporary or permanent cover, mulching should immediately follow seeding. On steep slopes, mulch must be supplemented with netting.

Mulch Maintenance *

- a) Inspect after rainstorms to check for movement of mulch or erosion. If washout, breakage, or erosion occurs, repair surface, reseed, remulch, and install new netting.
 - b) Grass mulches that blow or wash away should be repaired promptly.
 - c) If plastic netting is used to anchor mulch, care should be taken during initial mowings to keep the mower height high. Otherwise, the netting can wrap up on the mower blade shafts. After a period of time, the netting degrades and becomes less of a problem.
 - d) Continue inspections until vegetation is well established.
- 4) **Land Grading** – Grading on fill slopes, cut slopes, and stockpile areas will be done with full siltation controls in place.

Land Grading Design/Installation Requirements

- a) Areas to be graded should be cleared and grubbed of all timber, logs, brush, rubbish, and vegetated matter that will interfere with the grading operation. Topsoil should be stripped and stockpiled for use on critical disturbed areas for establishment of vegetation. Cut slopes to be topsoiled should be thoroughly scarified to a minimum depth of 3-inches prior to placement of topsoil.
- b) Fill materials should be generally free of brush, rubbish, rocks, and stumps. Frozen materials or soft and easily compressible materials should not be used in fills intended to support buildings, parking lots, roads, conduits, or other structures.
- c) Earth fill intended to support structural measures should be compacted to a minimum of 90 percent of Standard Proctor Test density with proper moisture

control, or as otherwise specified by the engineer responsible for the design. Compaction of other fills should be to the density required to control sloughing, erosion or excessive moisture content. Maximum thickness of fill layers prior to compaction should not exceed 9 inches.

- d) The uppermost one foot of fill slopes should be compacted to at least 85 percent of the maximum unit weight (based on the modified AASHTO compaction test). This is usually accomplished by running heavy equipment over the fill.
- e) Fill should consist of material from borrow areas and excess cut will be stockpiled in areas shown on the Site Plans. All disturbed areas should be free draining, left with a neat and finished appearance, and should be protected from erosion.
- f) Infiltration basins shall be excavated, graded and shaped to subgrade elevation and shall then be suitably protected with installation of erosion control measures to prevent sediment-laden runoff from washing into the basins. The basins shall also be protected from heavy equipment activity from this point forward. Prior to application of loam and seed to infiltration basin surfaces, the contractor shall remove any unsuitable soil such as silt or clay that may have been deposited during construction. The surface shall be scarified with a York rake or other small tractor mounted equipment. The loam and seed shall then be applied as required by this document.

Land Grading Stabilization Inspection/Maintenance *

- a) All slopes should be checked periodically to see that vegetation is in good condition. Any rills or damage from erosion and animal burrowing should be repaired immediately to avoid further damage.
 - b) If seeps develop on the slopes, the area should be evaluated to determine if the seep will cause an unstable condition. Subsurface drains or a gravel mulch may be required to solve seep problems. However, no seeps are anticipated.
 - c) Areas requiring revegetation should be repaired immediately. Control undesirable vegetation such as weeds and woody growth to avoid bank stability problems in the future.
- 5) **Topsoiling *** – Topsoiling will help establish vegetation on all disturbed areas throughout the site during the seeding process. The soil texture of the topsoil to be used will be a sandy loam to a silt loam texture with 15% to 20% organic content.

Topsoiling Placement

- a) Topsoil should not be placed while in a frozen or muddy condition, when the subgrade is excessively wet, or when conditions exist that may otherwise be detrimental to proper grading or proposed seeding.
- b) Do not place topsoil on slopes steeper than 2.5:1, as it will tend to erode.

- c) If topsoil and subsoil are not properly bonded, water will not infiltrate the soil profile evenly and it will be difficult to establish vegetation. The best method is to actually work the topsoil into the layer below for a depth of at least 6 inches.
- 6) **Permanent Seeding** – Permanent Seeding should be done immediately after the final design grades are achieved. Native species of plants should be used to establish perennial vegetative cover on disturbed areas. The revegetation should be done early enough in the fall so that a good cover is established before cold weather comes and growth stops until the spring. A good cover is defined as vegetation covering 75 percent or more of the ground surface.

Permanent Seeding Seedbed Preparation

- a) In infertile or coarse-textured subsoil, it is best to stockpile topsoil and re-spread it over the finished slope at a minimum 2 to 6-inch depth and roll it to provide a firm seedbed. The topsoil must have a sandy loam to silt loam texture with 15% to 20% organic content. If construction fill operations have left soil exposed with a loose, rough, or irregular surface, smooth with blade and roll.
- b) Loosen the soil to a depth of 3-5 inches with suitable agricultural or construction equipment.
- c) Areas not to receive topsoil shall be treated to firm the seedbed after incorporation of the lime and fertilizer so that it is depressed no more than ½ - 1 inch when stepped on with a shoe. Areas to receive topsoil shall not be firmed until after topsoiling and lime and fertilizer is applied and incorporated, at which time it shall be treated to firm the seedbed as described above.

Permanent Seeding Grass Selection/Application

- a) Select an appropriate cool or warm season grass based on site conditions and seeding date. Apply the seed uniformly by hydro-seeding, broadcasting, or by hand. Uniform seed distribution is essential. On steep slopes, hydroseeding may be the most effective seeding method. Surface roughening is particularly important when preparing slopes for hydroseeding.
- b) Lime and fertilize. Organic fertilizer shall be utilized in areas within the 100 foot buffer zone to a wetland resource area.
- c) Mulch the seedlings. Anchor the mulch with erosion control netting or fabric on sloping areas. Amoco supergro or equivalent should be utilized.

Permanent Seeding Inspection/Maintenance *

- a) Frequently inspect seeded areas for failure and make necessary repairs and reseed immediately. Conduct or follow-up survey after one year and replace failed plants where necessary.
- b) If vegetative cover is inadequate to prevent rill erosion, overseed and fertilize in accordance with soil test results.

- c) If a stand has less than 40% cover, reevaluate choice of plant materials and quantities of lime and fertilizer. Re-establish the stand following seedbed preparation and seeding recommendations, omitting lime and fertilizer in the absence of soil test results. If the season prevents resowing, mulch or jute netting is an effective temporary cover.
- d) Seeded areas should be fertilized during the second growing season. Lime and fertilize thereafter at periodic intervals, as needed.

Fueling and Maintenance of Equipment and Vehicles:

1. Refueling/maintenance Rules – The site supervisor shall produce a written document received by all subcontractors and employees that delineates their responsibilities on site. This document shall include language that shall permit the maintenance of vehicles only in designated locations on the job site. In the event of mechanical failure of a vehicle, the vehicle shall be moved to the designated maintenance area on the site to perform maintenance. The site supervisor shall document receipt of these instructions by obtaining the signatures of subcontractors and individuals that may enter the site and the date in which they were notified of their responsibilities. Refueling for vehicles or equipment shall occur either within the designated washout area or shall utilize temporary drip protection measures at the location of fueling. The site supervisor or their representative shall be present at the time of any fueling procedure. The site supervisor shall have a fuel spill plan and measures on site to initiate containment and clean-up in the event a fuel spill occurs.
2. Installation Schedule: Prior to start of Work
3. Maintenance and Inspection: The site supervisor shall maintain a log of individuals receiving these instructions.
4. Specific Pollution Prevention Practices

Pollution Prevention Practice # 1

- a. Description: Fueling operations shall take place in designated area(s) as shown on site maps. Provide temporary drip protection during fueling operations which take place outside of designated area(s). Materials necessary to address a spill shall be made readily available in a location known to the site supervisor or his/her designee.
- b. Installation: Fueling operation procedures shall be in effect throughout the project duration.
- c. Maintenance Requirements: All emergency response equipment listed in the Emergency Response Equipment Inventory shall be made readily available and kept in a designated location known to the site supervisor or his/her designee. All such materials shall be replenished as necessary to the listed amounts.

Dust Control:

Dust control will be utilized throughout the entire construction process of the site. For example, keeping disturbed surfaces moist during windy periods will be an effective control measure, especially for construction access roads. The use of dust control will prevent the movement of soil to offsite areas. However, care must be taken to not create runoff from excessive use of water to control dust. The following are methods of Dust Control that may be used on-site:

- Vegetative Cover – The most practical method for disturbed areas not subject to traffic.
- Calcium Chloride – Calcium chloride may be applied by mechanical spreader as loose, dry granules or flakes at a rate that keeps the surface moist but not so high as to cause water pollution or plant damage.
- Sprinkling – The site may be sprinkled until the surface is wet. Sprinkling will be effective for dust control on haul roads and other traffic routes.
- Stone – Stone will be used to stabilize construction roads; will also be effective for dust control.

The general contractor shall employ an on-site water vehicle for the control of dust as necessary.

Non-Stormwater Discharges:

The construction de-watering and all non-stormwater discharges will be directed into a sediment dirt bag (or equivalent inlet protection) or a sediment basin. Sediment material removed shall be disposed of in accordance with all applicable local, state, and federal regulations.

The developer and site general contractor will comply with the E.P.A.'s Final General Permit for Construction De-watering Discharges, (N.P.D.E.S., Section 402 and 40 C.F.R. 122.26(b)(14)(x).

Soil Stockpiling:

Topsoil and subsoil from the driveway grading will be stockpiled in locations shown on the plans.

Stockpile Material Construction Procedure

- 1) Topsoil and subsoil that are stripped will be stockpiled for later distribution on disturbed areas.
- 2) The stockpiles will be located as shown on the plans. These locations will allow them to not interfere with work on the site.
- 3) Seed the stockpiles with a temporary erosion control mix if the stockpile is to remain undisturbed for more than 30 days. The stockpiles must be stable and the side slopes should not exceed 2:1.
- 4) Sediment Fence/Hay Bale Barrier erosion control measures should be placed surrounding each stockpile.
- 5) As needed, the stockpiled topsoil and subsoil are redistributed throughout the site.

Anticipated Construction Schedule:

To prevent excessive erosion and silting, the following construction sequence coupled with other widely accepted principals for reducing erosion and sedimentation shall be implemented in the development of the site.

1. Obtain all plan approvals and other applicable permits.
2. Flag the work limits and mark trees and buffer areas for protection.
3. Hold a pre-construction meeting prior to any construction activity.
4. Install stabilization practices for erosion and sediment control prior to commencing construction activities. Refer to "Erosion and Sedimentation Control Plan" and place siltation fence and haybale barriers at locations indicated on the site plans.
5. Clear and grub up as required for the construction of the driveway and related infrastructure.
6. Construct stabilized construction entrance.
7. Excavate topsoil and subsoil from cut and fill areas and stockpile on site in locations shown on the plan. consideration should be given to locating stockpiles on the uphill side of disturbed areas, where possible, to act as temporary diversions.
8. Construct cut and fill areas, installing haybale check dams at toes of all 3:1 or greater slopes, and at ends of all cut areas. All fill will be installed using 12" maximum compaction lifts. Place all slope protection where indicated on the plan. the stormwater extended detention basin shall be constructed immediately after the driveway rough grading is completed and the area has been cleared of vegetation.
9. Install closed drainage system and other utilities. All catch basins shall be covered with siltsack or equivalent inlet protection.
10. Grade driveway to subgrade elevation and construct side slopes. Apply temporary stabilization measures where warranted. Refer to "Erosion and Sedimentation Control Plan".
11. Place gravel subbase.
12. Place the bituminous concrete binder course on driveway and parking lot.
13. Grade slopes and stabilize cut areas at toe of slopes. blend all slopes into existing topography and loam and seed all disturbed areas. slopes greater than 3:1 shall be stabilized with jute mesh.
14. Place the final wearing course of pavement.
15. Complete fine grading of shoulders and place pavement in miscellaneous areas.
16. Remove temporary erosion control devices once adequate growth is established. adequate growth is defined as vegetation covering 75% or more of the ground surface.

Inspection/Maintenance:

Operator personnel must inspect the construction site at least once every 14 calendar days and within 24 hours of a storm event of ½-inch or greater. The applicant shall be responsible to secure the services of a design professional or similar professional (inspector) on an on-going basis throughout all phases of the project. Refer to the Inspection/Maintenance Requirements presented earlier in the “Structural and Stabilization Practices.” The inspector should review the erosion and sediment controls with respect to the following:

- Whether or not the measure was installed/performed correctly.
- Whether or not there has been damage to the measure since it was installed or performed.
- What should be done to correct any problems with the measure.

The inspector should complete the Stormwater Management Construction Phase BMP Inspection Schedule and Evaluation Checklist, as attached, for documenting the findings and should request the required maintenance or repair for the pollution prevention measures when the inspector finds that it is necessary for the measure to be effective. The inspector should notify the appropriate person to make the changes and submit copies of the form to the Arlington Highway Department.

Project Location: Colonial Village Drive, APN 061.A-1-1 through 061.A-12-12, Arlington, MA Date:
Stormwater Management – Construction Phase
Best Management Practices – Inspection Schedule and Evaluation Checklist

Construction Practices

Best Management Practice	Inspection Frequency	Date Inspected	Inspector	Minimum Maintenance and Key Items to Check	Cleaning/Repair Needed: (List Items)	Date of Cleaning/Repair	Performed by
Silt Sock and Sediment Fence Controls	After heavy rainfall events (minimum weekly)			1. Sediment Fence Design/Installation Requirements 2. Sediment Fence Inspection/Maintenance	<input type="checkbox"/> yes <input type="checkbox"/> no		
Stabilized Construction Entrance	After heavy rainfall events (minimum weekly)			1. Construction Entrance Design/Construction Requirements 2. Construction Entrance Inspection/Maintenance	<input type="checkbox"/> yes <input type="checkbox"/> no		
Temporary Sedimentation Basins	After heavy rainfall events (minimum weekly)			1. Sediment Basin Inspection/Maintenance	<input type="checkbox"/> yes <input type="checkbox"/> no		
Temporary Seeding	After heavy rainfall events (minimum weekly)			1. Temporary Seeding Planting Procedures 2. Temporary Seeding Inspection/Maintenance	<input type="checkbox"/> yes <input type="checkbox"/> no		
Geotextiles	After heavy rainfall events (minimum weekly)			1. Geotextile Inspection/Maintenance	<input type="checkbox"/> yes <input type="checkbox"/> no		
Mulching & Netting	After heavy rainfall events (minimum weekly)			1. Mulch Maintenance	<input type="checkbox"/> yes <input type="checkbox"/> no		
Land Grading	After heavy rainfall events (minimum weekly)			1. Land Grading Stabilization Inspection/Maintenance	<input type="checkbox"/> yes <input type="checkbox"/> no		

Permanent Seeding	After heavy rainfall events (minimum weekly)			1. Permanent Seeding Inspection/ Maintenance	<input type="checkbox"/> yes <input type="checkbox"/> no		
Dust Control	After heavy rainfall events (minimum weekly)				<input type="checkbox"/> yes <input type="checkbox"/> no		
Soil Stockpiling	After heavy rainfall events (minimum weekly)				<input type="checkbox"/> yes <input type="checkbox"/> no		

(1) Refer to the Massachusetts Stormwater Handbook issued January 2, 2008.

Notes (Include deviations from : Definitive Subdivision Decision and Special Conditions and Approved Plan):

Stormwater Control Manager _____

Spill Containment and Management Plan

December 13, 2021

Initial Notification

In the event of a spill, the facility manager will be notified immediately.

Facility Managers (name) Colonial Village Condominium Trust _____
Alan Foley _____
Facility Manager (phone) 617-423-7000 _____

Assessment - Initial Containment

The supervisor will assess the incident and initiate containment control measures with the appropriate spill containment equipment included in the spill kit kept on-site. The supervisor will first contact the Fire Department and then notify the Police Department, Department of Public Works, Board of Health and Conservation Commission. The fire department is ultimately responsible for matters of public health and safety and should be notified immediately.

Contact:	Phone Number:
Fire Department:	<u>911</u>
Police Department:	<u>911</u>
Department of Public Works:	<u>(781) 316-3301</u>
Board of Health Phone:	<u>(781) 316-3170</u>
Conservation Commission Phone:	<u>(781) 316-3090</u>

Further Notification

Based on the assessment from the Fire Chief, additional notification to a cleanup contractor may be made. The Massachusetts Department of Environmental Protection (DEP) and the EPA may be notified depending upon the nature and severity of the spill. The Fire Chief will be responsible for determining the level of cleanup and notification required. The attached list of emergency phone numbers shall be posted in the facility office and readily accessible to all employees.

HAZARDOUS WASTE / OIL SPILL REPORT

Date ____ / ____ / ____

Time ____ AM / PM

Exact location (Transformer #) _____

Type of equipment _____ Make _____ Size _____

S / N _____ Weather Conditions _____

On or near water ☐ Yes ☐ No If yes, name of body of water _____

Type of chemical / oil spilled _____

Amount of chemical / oil spilled _____

Cause of spill _____

Measures taken to contain or clean up spill _____

Amount of chemical / oil recovered _____ Method _____

Material collected as a result of clean up

_____ drums containing _____

_____ drums containing _____

_____ drums containing _____

Location and method of debris disposal _____

Name and address of any person, firm, or corporation suffering damages _____

Procedures, method, and precautions instituted to prevent a similar occurrence from recurring _____

Spill reported to General Office by _____ Time _____ AM / PM

Spill reported to DEP / National Response Center by _____

DEP Date ____ / ____ / ____ Time ____ AM / PM Inspector _____

NRC Date ____ / ____ / ____ Time ____ AM / PM Inspector _____

Additional comments _____

EMERGENCY RESPONSE EQUIPMENT INVENTORY

The following equipment and materials shall be maintained at all times and stored in a secure area for long-term emergency response need.

--	SORBENT PADS	1 BALE
--	SAND BAGS (empty)	5
--	SPEEDI-DRI ABSORBENT	2 – 40LB BAGS
--	12" INFLATABLE PIPE PLUG	1
--	SQUARE END SHOVELS	1
--	PRY BAR	1
--	CATCH BASIN COVER	1

EMERGENCY NOTIFICATION PHONE NUMBERS

1. FACILITY MANAGER
NAME: _____ BEEPER: _____
PHONE: _____ CELL PHONE: _____

ALTERNATE:
NAME: Alan Foley BEEPER: N/A
PHONE: 617-423-7000 CEL PHONE: N/A
2. FIRE DEPARTMENT
EMERGENCY: 911
BUSINESS: (781) 316-3800

POLICE DEPARTMENT
EMERGENCY: 911
BUSINESS: (781) 643-1212

DEPARTMENT OF PUBLIC WORKS
CONTACT: Michael Rademacher, Director
BUSINESS: (781) 316-3104
ALTERNATE: (781) 316-3301

CONSERVATION COMMISSION
CONTACT: Susan Chapnick, Chair
BUSINESS: (781) 316-3090

BOARD OF HEALTH
CONTACT: Natasha Waden, Director
BUSINESS: (781) 316-3170
3. MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
EMERGENCY: (888) 304-1133
NORTHEAST REGION - WILMINGTON OFFICE: (978) 694-3200
4. NATIONAL RESPONSE CENTER
PHONE: (800) 424-8802

ALTERNATE: U.S. ENVIRONMENTAL PROTECTION AGENCY
EMERGENCY: (617) 223-7265
BUSINESS: (617) 860-4300

**POST-DEVELOPMENT BEST MANAGEMENT
PRACTICE
OPERATION AND MAINTENANCE PLAN &
LONG-TERM POLLUTION PREVENTION PLAN**

for

Colonial Village Drive

In

**Arlington, Massachusetts
(APN 061.A-1-1 through 061.A-12-12)**

Submitted to:

TOWN OF ARLINGTON

Prepared for:

**Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, Massachusetts 02111**

Prepared by:



**Professional Civil Engineering • Project Management • Land Planning
150 Longwater Drive, Suite 101, Norwell, Massachusetts 02061
Tel.: (781) 792-3900 Facsimile: (781) 792-0333
www.mckeng.com**

December 13, 2021

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**Post-Development Best Management Practice
Operation and Maintenance Plan &
Long-Term Pollution Prevention Plan**

**Post-Development Best Management Practices (BMPs)
Operation and Maintenance Plan**

Responsible Party/Property Owner/Developer contact information:

Property Owner: Colonial Village Condominium Trust
15 Tremont Street PH1
Boston, MA 02111

Developer Contact Information:

Colonial Village Condominium Trust
Alan Foley, Senior Construction Project Manager
First Realty Management Corporation, AMO
15 Tremont Street PH1
Boston, MA 02111
Phone: (617) 423-7000

Best Management Practices (BMPs) of the Commonwealth of Massachusetts Department of Environmental Protection's (DEP's) Stormwater Management Policy (SMP) have been implemented and utilized for the project. The following information provided is to be used as a guideline for monitoring and maintaining the performance of the drainage facilities and to ensure that the quality of water runoff meets the standards set forth by the SMP. The structural Best Management Practices (BMPs) shall be inspected during rainfall conditions during the first year of operation to verify functionality.

BMPs included in the design consist of the use of:

- Paved areas maintenance
- Deep sump catch basins with hooded outlets
- Proprietary pretreatments units
- Outlet protection
- Restrictions on the use of pesticides and herbicides within the 100-foot buffer zone
- Snow removal

Operation:

Once the stormwater management systems have been constructed and the driveway and parking lot has been permanently stabilized and put into action, the operation of the stormwater management system will function as intended. Stormwater runoff is directed into the catch basins and closed drainage system to the First Defense units, and lastly to the subsurface infiltration systems. The subsurface stormwater management systems have been designed to attenuate peak flows for the 1-year through 100-year storm events.

Maintenance:

- 1. Paved Areas** –Sweepers shall sweep paved areas periodically during dry weather to remove excess sediments and to reduce the amount of sediments that the drainage system shall have to remove from the runoff. The sweeping shall be conducted primarily between March 15th and November 15th. Special attention should be made to sweeping paved surfaces in March and April before spring rains wash residual sand into the drainage system.

The frequency of sweeping shall average:

- Monthly if by a high-efficiency vacuum sweeper
- Bi-weekly if by a regenerative air sweeper
- Weekly if by a mechanical sweeper

Salt used for de-icing on the parking lot during winter months shall be limited as much as possible as this will reduce the need for removal and treatment. Sand containing the minimum amount of calcium chloride (or approved equivalent) needed for handling may be applied as part of the routine winter maintenance activities.

Cost: The property owner should consult local sweeping contractors for detailed cost estimates.

- 2. Catch Basins** - Catch basin grates shall be checked quarterly and following heavy rainfalls to verify that the inlet openings are not clogged by debris. Debris shall be removed from the grates and disposed of properly. Deep sump catch basins shall be inspected and cleaned bi-annually of all accumulated sediments. Catch basins with hoods shall be inspected annually to check oil build-up and outlet obstructions. Material shall be removed from catch basins and disposed of in accordance with all applicable regulations.

Cost: Estimated \$50 - \$100 per cleaning as needed. The property owner should consult local vacuum cleaning contractors for detailed cost estimates.

- 3. Proprietary Pretreatment Units** – The proprietary pretreatment units shall be inspected and maintained from the surface, without entry into the unit a minimum of annually and following heavy rain events. Perform maintenance once the stored volume reaches 15% of the unit capacity, or immediately in the event of a spill. Perform Maintenance at quarterly intervals during the first year of installation, so an accurate maintenance schedule can be established. Sediment and debris should be removed through the 12-inch diameter outlet pipe. Alternatively, oil and floatables should be removed through the 12-inch oil inspection port. The requirements for the disposal from the units should be in compliance with all local, state and federal regulations. Please refer to the Manufacturer's Manual for additional detail on proper inspection and maintenance of the First Defense units.

Cost: Cleaning should be included along with the routine maintenance of the catch basins. The property owner should consult local vacuum cleaning contractors for detailed cost estimates.

- 4. Outlet Protection** - All outfall protection structures shall be inspected quarterly and following major storm events defined as a storm event exceeding one inch of rainfall within a twenty-four-hour period to check for signs for erosion. Any necessary repairs shall be performed promptly and cleaned to remove accumulated sediment as necessary. Material removed shall be disposed of in accordance with all

applicable local, state, and federal regulations. Rip-Rap overflow structure shall be weeded and cleaned on a quarterly basis to ensure that water overflowing the spillway will not become obstructed by debris.

5. Pesticides, Herbicides, and Fertilizers - Pesticides and herbicides shall be used sparingly. Fertilizers should be restricted to the use of organic fertilizers only.

All structural BMP's as identified on the site plans will be owned and maintained by the homeowner's association of the development and shall run with the title of the property.

Cost: Included in the routine landscaping maintenance schedule. The Owner should consult local landscaping contractors for details.

6. Snow Removal - Snow accumulations removed from driveway and parking areas should be placed in upland areas only, where sand and other debris will remain after snowmelt for later removal. Excess snow should be removed from the site and properly disposed of in an approved snow disposal facility. Care must be exercised not to deposit snow in the following areas: in the rain gardens, bioswales, and where sand and debris can get into the watercourse.

Cost: The owner should consult local snow removal contractors for a detailed cost estimate.

Maintenance Responsibilities:

All post construction maintenance activities will be documented and kept on file in the form of an Evaluation Checklist, see attached form.

All structural BMPs as identified on the site plans will be owned and maintained by the developer or property owner. All post construction maintenance activities shall run with the title of the property.

Long-Term Pollution Prevention Plan

Good Housekeeping:

To develop and implement an operation and maintenance program with the goal of preventing or reducing pollutant runoff by keeping potential pollutants from coming into contact with stormwater or being transported off site without treatment, the following efforts will be made:

- Property Management awareness and training on how to incorporate pollution prevention techniques into maintenance operations.
- Follow appropriate best management practices (BMPs) by proper maintenance and inspection procedures.

Storage and Disposal of Household Waste and Toxics:

This management measure involves educating the general public on the management considerations for hazardous materials. Failure to properly store hazardous materials dramatically increases the probability that they will end up in local waterways. Many people have hazardous chemicals stored throughout their homes, especially in garages and storage sheds. Practices such as covering hazardous materials or even storing

them properly, can have dramatic impacts. Property owners are encouraged to support the household hazardous product collection events sponsored by the Town of Arlington.

MADEP has prepared several materials for homeowners on how to properly use and dispose of household hazardous materials:

<http://www.mass.gov/dep/recycle/reduce/househol.htm>

For consumer questions on household hazardous waste call the following number:

DEP Household Hazardous Waste Hotline 800-343-3420

The following is a list of management considerations for hazardous materials as outlined by the EPA:

- Ensuring sufficient aisle space to provide access for inspections and to improve the ease of material transport;
- Storing materials well away from high-traffic areas to reduce the likelihood of accidents that might cause spills or damage to drums, bags, or containers.
- Stacking containers in accordance with the manufacturers' directions to avoid damaging the container or the product itself;
- Storing containers on pallets or equivalent structures. This facilitates inspection for leaks and prevents the containers from coming into contact with wet floors, which can cause corrosion. This consideration also reduces the incidence of damage by pests.

The following is a list of commonly used hazardous materials used in the household:

Batteries – automotive and rechargeable

.....nickel cadmium batteries

.....(no alkaline batteries)

Gasoline

Oil-based paints

Fluorescent light bulbs and lamps

Pool chemicals

Propane tanks

Lawn chemicals,

fertilizers and weed killers

Turpentine

Bug sprays

Antifreeze

Paint thinners, strippers, varnishes and
..... stains

Arts and crafts chemicals

Charcoal lighter fluid

Disinfectant

Drain clog dissolvers

Driveway sealer

Flea dips, sprays and collars

Houseplant insecticides

Metal polishes

Mothballs

Motor oil and filters

Muriatic acid (concrete cleaner)

Nail polishes and nail polish
removers

Oven cleaner

Household pest and rat poisons

Rug and upholstery cleaners

Shoe polish

Windshield wiper fluid

Vehicle Washing:

This management measure involves educating the general public on the water quality impacts of the outdoor washing of automobiles and how to avoid allowing polluted runoff to enter the storm drain system. Outdoor car washing has the potential to result in high loads of nutrients, metals, and hydrocarbons during dry weather conditions in many watersheds, as the detergent-rich water used to wash the grime off our cars flows down

the street and into the storm drain. The following management practices will be encouraged:

- Washing cars on gravel, grass, or other permeable surfaces.
- Blocking off the storm drain during car washing and redirecting wash water onto grass or landscaping to provide filtration.
- Using hoses with nozzles that automatically turn off when left unattended.
- Using only biodegradable soaps.
- Minimize the amounts of soap and water used. Wash cars less frequently.
- Promote use of commercial car wash services.

Landscape Maintenance:

This management measure seeks to control the storm water impacts of landscaping and lawn care practices through education and outreach on methods that reduce nutrient loadings and the amount of storm water runoff generated from lawns. Nutrient loads generated by fertilizer use on suburban lawns can be significant, and recent research has shown that lawns produce more surface runoff than previously thought.

Using proper landscaping techniques can effectively increase the value of a property while benefiting the environment. These practices can benefit the environment by reducing water use; decreasing energy use (because less water pumping and treatment is required); minimizing runoff of storm and irrigation water that transports soils, fertilizers, and pesticides; and creating additional habitat for plants and wildlife. The following lawn and landscaping management practices will be encouraged:

- Mow lawns at the highest recommended height.
- Minimize lawn size and maintain existing native vegetation.
- Collect rainwater for landscaping/gardening needs (rain barrels and cisterns to capture roof runoff).
- Raise public awareness for promoting the water efficient maintenance practices by informing users of water efficient irrigation techniques and other innovative approaches to water conservation.
- Abide by water restrictions and other conservation measures implemented by the Town of Arlington.
- Water only when necessary.
- Use automatic irrigation systems to reduce water use.

Integrated Pest Management (IPM):

This management measure seeks to limit the adverse impacts of insecticides and herbicides by providing information on alternative pest control techniques other than chemicals or explaining how to determine the correct dosages needed to manage pests.

The presence of pesticides in stormwater runoff has a direct impact on the health of aquatic organisms and can present a threat to humans through contamination of drinking water supplies. The pesticides of greatest concern are insecticides, such as diazinon

and chlorpyrifos, which even at very low levels can be harmful to aquatic life. The major source of pesticides to urban streams is home application of products designed to kill insects and weeds in the lawn and garden. The following IPM practices will be encouraged:

- Lawn care and landscaping management programs including appropriate pesticide use management as part of program.
- Raise public awareness by referring homeowners to “A Homeowner’s Guide to Environmentally Sound Lawncare, Maintaining a Healthy Lawn the IPM Way”, Massachusetts Department of Food and Agriculture, Pesticide Bureau or link <http://www.mass.gov/dep/water/resources/nonpoint.htm#megaman>>

Pet Waste Management:

Pet waste management involves using a combination of pet waste collection programs, pet awareness and education, to alert residents to the proper disposal techniques for pet droppings. The following management practices will be encouraged:

- Raise awareness of homeowners that are also pet owners that they are encouraged to pick up after their pets and dispose of the waste either in the trash, including on their own lawns and walking trails.
- Provide signage along walking trails.

Proper Management of Deicing Chemicals and Snow:

Roadways shall be maintained by the Developer/Property Owners. The following deicing chemicals and snow storage practices will be encouraged:

- Select effective snow disposal sites adjacent to or on pervious surfaces in upland areas away from water resources and wells. At these locations, the snow meltwater can filter in to the soil, leaving behind sand and debris, which can be removed in the springtime.
- No roadway deicing materials shall be stockpiled on site unless all storage areas are protected from exposure to rain, snow, snowmelt and runoff.
- Avoid dumping snow into any waterbody, including wetlands, cranberry bogs, detention/infiltration basins, and grassed swales/channels.
- Avoid disposing of snow on top of storm drain catch basins.

Project Location: Colonial Village Drive, APN 061.A-1-1 through 061.A-12-12, Arlington, MA

Stormwater Management – Post Construction Phase

Best Management Practices – Inspection Schedule and Evaluation Checklist

Long Term Practices

Best Management Practice	Inspection Frequency (1)	Date Inspected	Inspector	Minimum Maintenance and Key Items to Check (1)	Cleaning/Repair Needed: <input type="checkbox"/> yes <input type="checkbox"/> no (List Items)	Date of Cleaning/Repair	Performed by
Street Sweeping Maintenance	4-times annually - specifically in Spring and Fall			1. Sediment build-up 2. Trash and debris 3. Minor Spills (vehicular)			
Deep Sump and Hooded Catch basin	After heavy rainfall events (minimum quarterly)			1. Sediment level exceeds 8" 2. Trash and debris 3. Floatable oils or hydrocarbons 4. Grate or outlet blockages			
Proprietary Pretreatment Units	After heavy rainfall events (minimum annually)			1. Sediment level exceeds Manufacturer's specification 2. Trash and debris 3. Floatable oils or hydrocarbons 4. Outlet blockages			
Subsurface Infiltration Tanks	After heavy rainfall events (minimum semi-annually)			1. Sediment build-up 2. Standing Water greater than 48 hours			
Outlet Protection	Quarterly			1. Sediment build-up 2. Trash and debris 3. Displacement of rip rap 4. Excess vegetation			
Trench Drains	After heavy rainfall events (minimum quarterly)			1. Sediment level exceeds 8" 2. Trash and debris 3. Floatable oils or hydrocarbons 4. Grate or outlet blockages			

(1) Refer to the Massachusetts Stormwater Management, Volume Two: Stormwater Technical Handbook (February 2008) for recommendations regarding frequency for inspection and maintenance of specific BMP's.

Notes (Include deviations from: Con Com Order of Conditions, PB Approval, Construction Sequence and Approved Plan):

1.

Stormwater Control Manager _____

Stamp:

Spill Containment and Management Plan

December 13, 2021

Initial Notification

In the event of a spill, the facility manager will be notified immediately.

Facility Managers (name) Colonial Village Condominium Trust _____
Alan Foley _____
Facility Manager (phone) 617-423-7000 _____

Assessment - Initial Containment

The supervisor will assess the incident and initiate containment control measures with the appropriate spill containment equipment included in the spill kit kept on-site. The supervisor will first contact the Fire Department and then notify the Police Department, Department of Public Works, Board of Health and Conservation Commission. The fire department is ultimately responsible for matters of public health and safety and should be notified immediately.

Contact:	Phone Number:
Fire Department:	<u>911</u>
Police Department:	<u>911</u>
Department of Public Works:	<u>(781) 316-3301</u>
Board of Health Phone:	<u>(781) 316-3170</u>
Conservation Commission Phone:	<u>(781) 316-3090</u>

Further Notification

Based on the assessment from the Fire Chief, additional notification to a cleanup contractor may be made. The Massachusetts Department of Environmental Protection (DEP) and the EPA may be notified depending upon the nature and severity of the spill. The Fire Chief will be responsible for determining the level of cleanup and notification required. The attached list of emergency phone numbers shall be posted in the facility office and readily accessible to all employees.

HAZARDOUS WASTE / OIL SPILL REPORT

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Time ____ AM / PM

Exact location (Transformer #) _____

Type of equipment _____ Make _____ Size _____

S / N _____ Weather Conditions _____

On or near water ☐ Yes ☐ No If yes, name of body of water _____

Type of chemical / oil spilled _____

Amount of chemical / oil spilled _____

Cause of spill _____

Measures taken to contain or clean up spill _____

Amount of chemical / oil recovered _____ Method _____

Material collected as a result of clean up

_____ drums containing _____

_____ drums containing _____

_____ drums containing _____

Location and method of debris disposal _____

Name and address of any person, firm, or corporation suffering damages _____

Procedures, method, and precautions instituted to prevent a similar occurrence from recurring _____

Spill reported to General Office by _____ Time _____ AM / PM

Spill reported to DEP / National Response Center by _____

DEP Date ____ / ____ / ____ Time ____ AM / PM Inspector _____

NRC Date ____ / ____ / ____ Time ____ AM / PM Inspector _____

Additional comments _____

EMERGENCY RESPONSE EQUIPMENT INVENTORY

The following equipment and materials shall be maintained at all times and stored in a secure area for long-term emergency response need.

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--	SPEEDI-DRI ABSORBENT	2 – 40LB BAGS
--	12" INFLATABLE PIPE PLUG	1
--	SQUARE END SHOVELS	1
--	PRY BAR	1
--	CATCH BASIN COVER	1

EMERGENCY NOTIFICATION PHONE NUMBERS

1. FACILITY MANAGER
NAME: _____ BEEPER: _____
PHONE: _____ CELL PHONE: _____

ALTERNATE:
NAME: Alan Foley BEEPER: N/A
PHONE: 617-423-7000 CEL PHONE: N/A
2. FIRE DEPARTMENT
EMERGENCY: 911
BUSINESS: (781) 316-3800

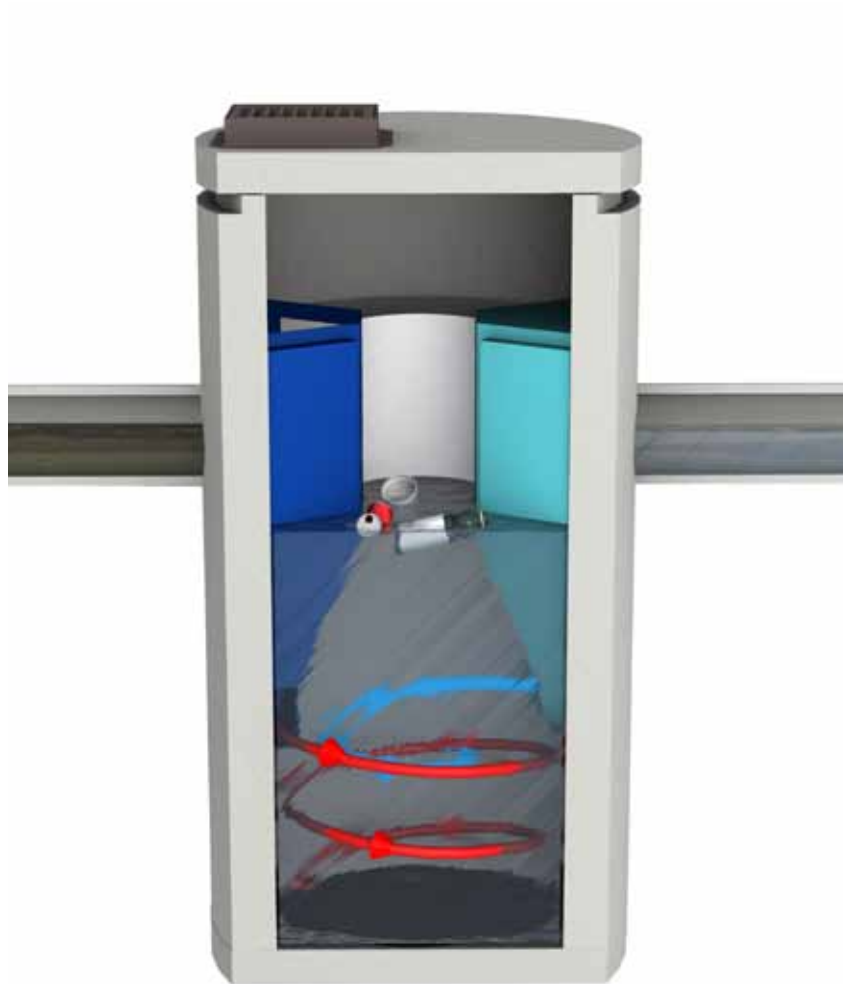
POLICE DEPARTMENT
EMERGENCY: 911
BUSINESS: (781) 643-1212

DEPARTMENT OF PUBLIC WORKS
CONTACT: Michael Rademacher, Director
BUSINESS: (781) 316-3104
ALTERNATE: (781) 316-3301

CONSERVATION COMMISSION
CONTACT: Susan Chapnick, Chair
BUSINESS: (781) 316-3090

BOARD OF HEALTH
CONTACT: Natasha Waden, Director
BUSINESS: (781) 316-3170
3. MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
EMERGENCY: (888) 304-1133
NORTHEAST REGION - WILMINGTON OFFICE: (978) 694-3200
4. NATIONAL RESPONSE CENTER
PHONE: (800) 424-8802

ALTERNATE: U.S. ENVIRONMENTAL PROTECTION AGENCY
EMERGENCY: (617) 223-7265
BUSINESS: (617) 860-4300



Operation and Maintenance Manual

First® Defense

Vortex Separator for Stormwater Treatment

Stormwater Solutions
Turning Water Around ...®

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4	Maintenance <ul style="list-style-type: none">- Overview- Determining Your Maintenance Schedule
5	Maintenance Procedures <ul style="list-style-type: none">- Inspection- Floatables and Sediment Cleanout
8	First Defense® Installation Log
9	First Defense® Inspection and Maintenance Log

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DISCLAIMER: Information and data contained in this manual is exclusively for the purpose of assisting in the operation and maintenance of Hydro International plc's First Defense®. No warranty is given nor can liability be accepted for use of this information for any other purpose. Hydro International plc has a policy of continuous product development and reserves the right to amend specifications without notice.

First Defense® by Hydro International

Capturing more than 25 years of separation design experience, the First Defense® is Hydro International's latest addition to its family of hydrodynamic vortex separators intended for stormwater applications. It has been developed with ease of installation and maintenance at the forefront without sacrificing performance or design flexibility.

All internal components are housed in either a 4-ft or 6-ft diameter precast manhole that is designed to withstand traffic loads. Each model can be used as a catch basin inlet or standard manhole with solid cover so that runoff can enter from an overhead grate, inlet pipe or both without diminishing performance.

The First Defense® has internal components that are designed to generate rotational flow within the device without requiring a tangential inlet. Flow within the precast chamber is controlled to prevent turbulence and its unique reverse-flow outlet intake ensures a longer retention time by preventing short-circuiting. An internal bypass prevents high flow re-suspension and washout and eliminates the need for additional bypass structures. The internals can easily be adjusted to change the angle between the inlet and outlet for storm drain directional changes and dual inlets can be accommodated in most cases. This simplifies grading and site design so that flow can be conveyed from isolated locations within the same site without increasing the number of structures.

For removal of fine sediment and associated pollutants, oil spills, trash and debris, the first choice in stormwater treatment systems is the First Defense®.

First Defense® Components

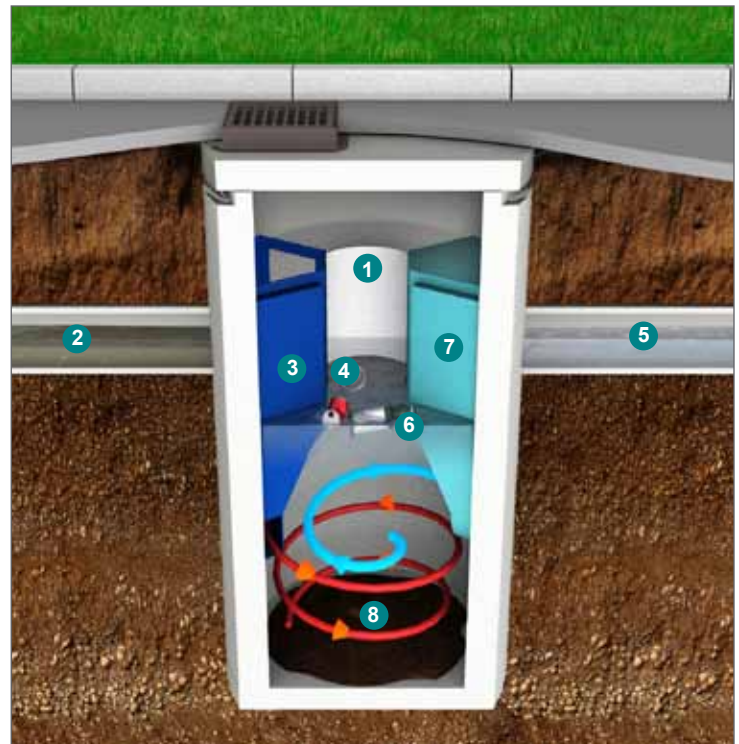
1. Built-In Bypass
2. Inlet Pipe
3. Inlet Chute
4. Floatables Draw-off Port (not pictured)
5. Outlet Pipe
6. Floatables Storage
7. Outlet Chute
8. Sediment Storage

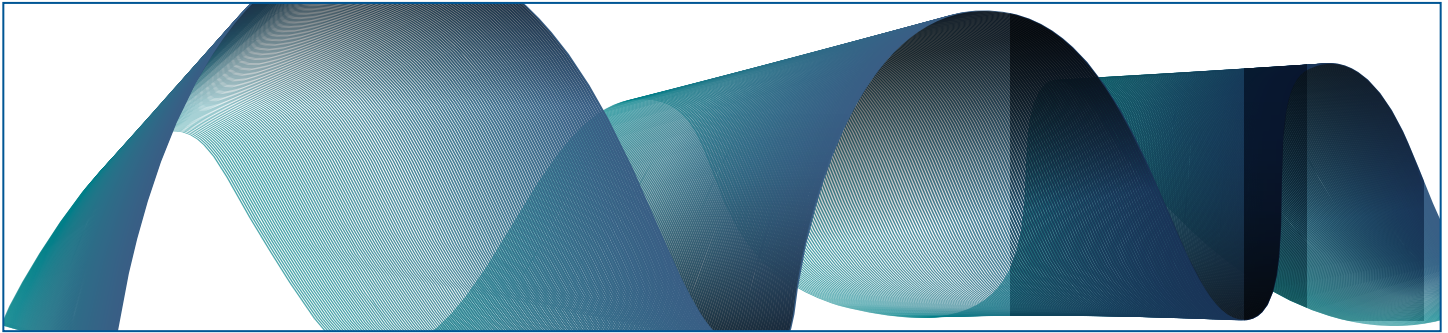
Benefits of the First Defense®

- Compact and flexible design
 - Can be used as a catch basin inlet and directional change manhole
 - Optional one or two inlets
 - Does not require a bypass structure
- Hydrodynamic Vortex Separation
 - Extended and structured flow path
 - Minimal headloss
 - Reduces turbulence and re-suspension
 - Reverse-flow outlet intake prevents short-circuiting
 - Improved efficiency for all flows
- Delivered Pre-assembled for easy and fast installation
- Simple to inspect and maintain
- Independently verified

Applications

- New developments and retrofits
- Utility yards
- Streets and roadways
- Parking lots
- Pre-treatment for filters, infiltration and storage
- Industrial and commercial facilities
- Wetlands protection





Operation

Introduction

The First Defense® operates on simple fluid hydraulics. It is self-activating, has no moving parts, no external power requirement and is fabricated with durable non-corrosive components. No manual procedures are required to operate the unit and maintenance is limited to monitoring accumulations of stored pollutants and periodic clean-outs. The First Defense® has been designed to allow for easy and safe access for inspection, monitoring and clean-out procedures. Neither entry into the unit nor removal of the internal components is necessary for maintenance, thus safety concerns related to confined-space-entry are avoided.

Pollutant Capture and Retention

The internal components of the First Defense® have been designed to optimize pollutant capture. Sediment is captured and retained in the base of the unit, while oil and floatables are stored on the water surface in the inner volume. The pollutant storage volumes are isolated from the built-in bypass chamber to prevent washout during high-flow internally-bypassed storm events. Accessories such as oil absorbent pads are available for enhanced oil removal and storage. Due to the separation of the oil and floatable storage volume from the outlet, the potential for washout of stored pollutants between clean-outs is minimized.

Wet Sump

The sump of the First Defense® retains a standing water level between storm events. The water in the sump prevents stored sediment from solidifying in the base of the unit. The clean-out procedure becomes more difficult and labor intensive if the system allows fine sediment to dry-out and consolidate. Dried sediment must be manually removed by maintenance crews. This is a labor intensive operation in a hazardous environment.

Maintenance

Overview

The First Defense® protects the environment by removing a wide range of pollutants from stormwater runoff. Periodic removal of these captured pollutants is essential to the continuous, long-term functioning of the First Defense®. The First Defense® will capture and retain sediment and oil until the sediment and oil storage volumes are full to capacity. When sediment and oil storage capacities are reached, the First Defense® will no longer be able to store removed sediment and oil. Maximum pollutant storage capacities are provided in Table 1.

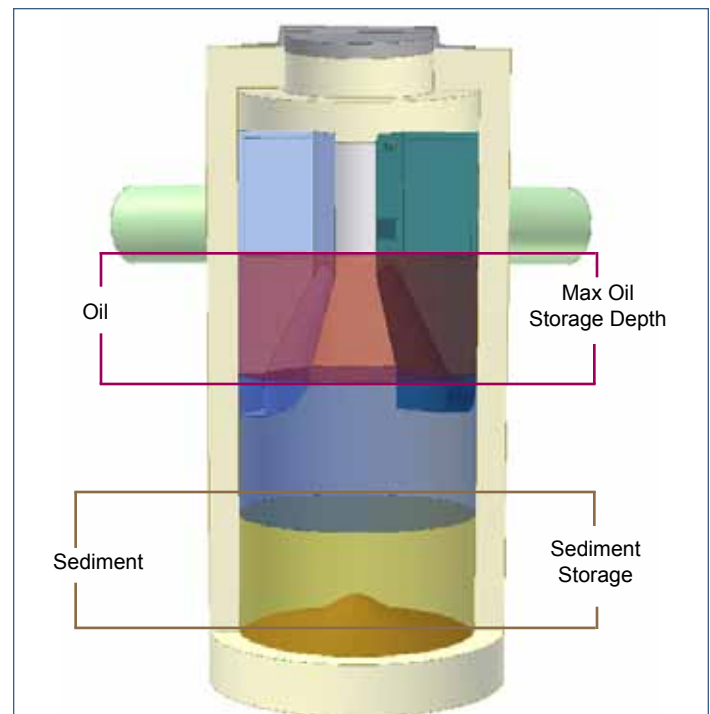


Fig.1 Pollutant storage volumes in the First Defense®.

The First Defense® allows for easy and safe inspection, monitoring and clean-out procedures. A commercially or municipally owned sump-vac is used to remove captured sediment and floatables. Access ports are located in the top of the manhole.

Maintenance events may include Inspection, Oil & Floatables Removal, and Sediment Removal. Maintenance events do not require entry into the First Defense®, nor do they require the internal components of the First Defense® to be removed. In the case of inspection and floatables removal, a vactor truck is not required. However, a vactor truck is required if the maintenance event is to include oil removal and/or sediment removal.

Determining Your Maintenance Schedule

The frequency of cleanout is determined in the field after installation. During the first year of operation, the unit should be inspected every six months to determine the rate of sediment and floatables accumulation. A simple probe such as a Sludge Judge® can be used to determine the level of accumulated solids stored in the sump. This information can be recorded in the maintenance log (see page 9) to establish a routine maintenance schedule.

The vactor procedure, including both sediment and oil/floatables removal, for a 6-ft First Defense® typically takes less than 30 minutes and removes a combined water/oil volume of about 800 gallons.

Inspection

Inspection is a simple process that does not involve entry into the First Defense®. Maintenance crews should be familiar with the First Defense® and its components prior to inspection.

Scheduling

- It is important to inspect your First Defense® every six months during the first year of operation to determine your site-specific rate of pollutant accumulation.
- Typically, inspection may be conducted during any season of the year.

Recommended Equipment

- Safety Equipment and Personal Protective Equipment (traffic cones, work gloves, etc.)
- Crow bar or other tool to remove grate or lid
- Pole with skimmer or net
- Sediment probe (such as a Sludge Judge®)
- Trash bag for removed floatables
- First Defense® Maintenance Log

Table 1. First Defense® Pollutant Storage Capacities and Maximum Cleanout Depths

Unit Diameter	Total Oil Storage	Oil Clean-out Depth	Total Sediment Storage	Sediment Clean-out Depth	Max. Liquid Volume Removed
(ft)	(gal)	(in)	(gal)	(in)	(gal)
4	180	<23.5	202	26	202-342
6	420	<23.5	626	36	626-1,046

NOTE

The total volume removed will depend on the oil accumulation level. Oil accumulation is typically much less than sediment, however removal of oil and sediment during the same service is recommended.

Inspection Procedures

1. Set up any necessary safety equipment around the access port or grate of the First Defense® as stipulated by local ordinances. Safety equipment should notify passing pedestrian and road traffic that work is being done.
2. Remove the grate or lid to the manhole.
3. Without entering the vessel, look down into the chamber to inspect the inside. Make note of any irregularities. Fig.2 shows the standing water level that should be observed.
4. Without entering the vessel, use the pole with the skimmer net to remove floatables and loose debris from the outer annulus of the chamber.
5. Using a sediment probe such as a Sludge Judge®, measure the depth of sediment that has collected in the sump of the vessel.
6. On the Maintenance Log (see page 9), record the date, unit location, estimated volume of floatables and gross debris removed, and the depth of sediment measured. Also note any apparent irregularities such as damaged components or blockages.
7. Securely replace the grate or lid.
8. Take down safety equipment.
9. Notify Hydro International of any irregularities noted during inspection.

Floatables and Sediment Cleanout

Floatables cleanout is typically done in conjunction with sediment removal. A commercially or municipally owned sump-vac is used to remove captured sediment and floatables (Fig.2).

Floatables and loose debris can also be netted with a skimmer and pole. The access port located at the top of the manhole provides unobstructed access for a vactor hose and skimmer pole to be lowered to the base of the sump.

Scheduling

- Floatables and sump cleanout are typically conducted once a year during any season.
- Floatables and sump cleanout should occur as soon as possible following a spill in the contributing drainage area.

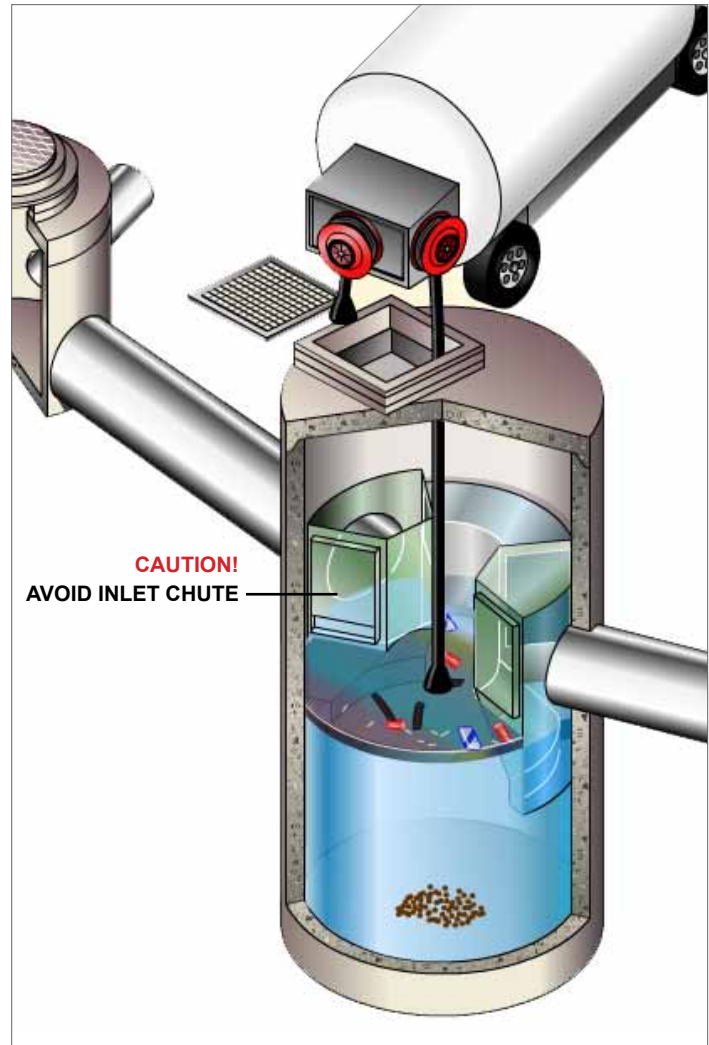


Fig.2 Floatables are removed with a vactor hose.

Recommended Equipment

- Safety Equipment (traffic cones, etc)
- Crow bar or other tool to remove grate or lid
- Pole with skimmer or net (if only floatables are being removed)
- Sediment probe (such as a Sludge Judge®)
- Vactor truck (flexible hose recommended)
- First Defense® Maintenance Log

Floatables and sediment Clean Out Procedures

1. Set up any necessary safety equipment around the access port or grate of the First Defense® as stipulated by local ordinances. Safety equipment should notify passing pedestrian and road traffic that work is being done.
2. Remove the grate or lid to the manhole.
3. Without entering the vessel, look down into the chamber to inspect the inside. Make note of any irregularities.
4. Remove oil and floatables stored on the surface of the water with the vactor hose (Fig.2) or with the skimmer or net (not pictured).
5. Using a sediment probe such as a Sludge Judge®, measure the depth of sediment that has collected in the sump of the vessel and record it in the Maintenance Log (page 9).
6. Once all floatables have been removed, drop the vactor hose to the base of the sump. Vactor out the sediment and gross debris off the sump floor (Fig.3).
7. Retract the vactor hose from the vessel.
8. On the Maintenance Log provided by Hydro International, record the date, unit location, estimated volume of floatables and gross debris removed, and the depth of sediment measured. Also note any apparent irregularities such as damaged components, blockages, or irregularly high or low water levels.
9. Securely replace the grate or lid.

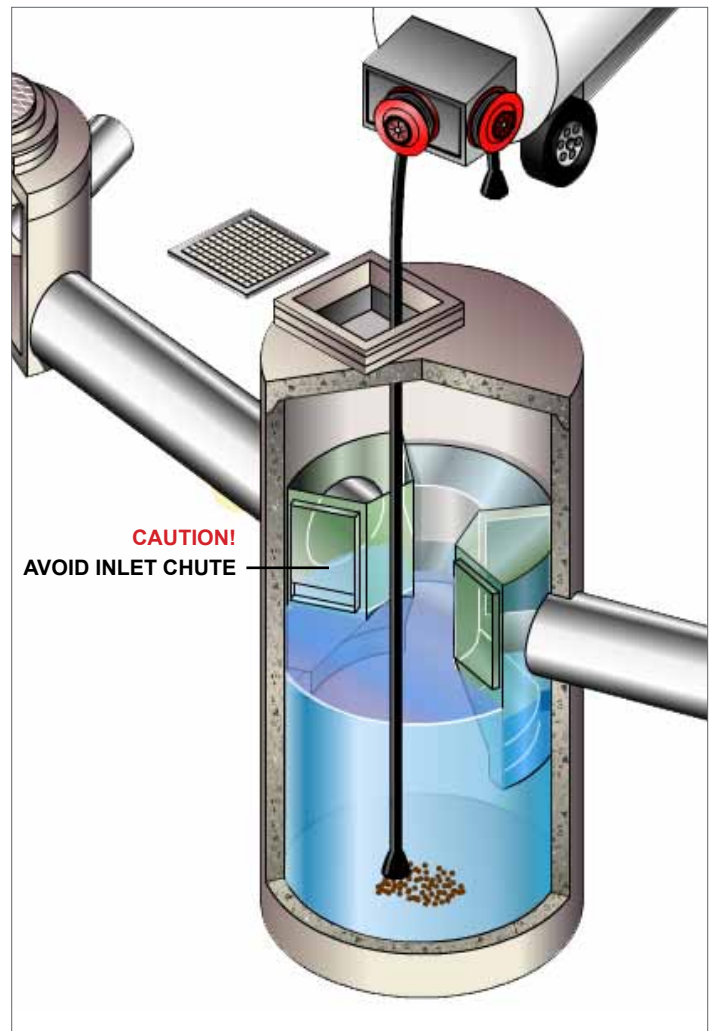


Fig.3 Sediment is removed with a vactor hose

Maintenance at a Glance

Activity	Frequency
Inspection	<ul style="list-style-type: none"> - Regularly during first year of installation - Every 6 months after the first year of installation
Oil and Floatables Removal	<ul style="list-style-type: none"> - Once per year, with sediment removal - Following a spill in the drainage area
Sediment Removal	<ul style="list-style-type: none"> - Once per year or as needed - Following a spill in the drainage area

NOTE: For most cleanouts it is not necessary to remove the entire volume of liquid in the vessel. Only removing the first few inches of oils/floatables and the sediment storage volume is required.

First Defense® Installation Log

HYDRO INTERNATIONAL REFERENCE NUMBER:	
SITE NAME:	
SITE LOCATION:	
OWNER:	CONTRACTOR:
CONTACT NAME:	CONTACT NAME:
COMPANY NAME:	COMPANY NAME:
ADDRESS:	ADDRESS:
TELEPHONE:	TELEPHONE:
FAX:	FAX:

INSTALLATION DATE: / /

MODEL SIZE (CIRCLE ONE): 4-FT

6-FT

INLET (CIRCLE ALL THAT APPLY): GRATE INLET (CATCH BASIN)

INLET PIPE (FLOW THROUGH)

First Defense® Inspection and Maintenance Log

[illegible]



What is HX?

HX is Hydro Experience, it is the essence of Hydro. It's interwoven into every strand of Hydro's story, from our products to our people, our engineering pedigree to our approach to business and problem-solving.

HX is a stamp of quality and a mark of our commitment to optimum process performance. A Hydro solution is tried, tested and proven.

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